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Circular No. 4, Quartermaster General's Office, 1911

Schedule of Land Grant, Indebted
and Bond-Aided Mileages and
Percentages of Railroads
of the United States

Quartermaster's Dept



April 1, 1911

Washington : Government Printing Office : 1911



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NOTES.

[The asterisk (*) opposite mileage denotes "Free line."]

NOTE 1.—On points giving reference to Note 1, authorized eastern terminals must be deducted and percentages shown applied to balance.

NOTE 2.—On points giving reference to Note 2, deduct arbitrary for T. & P. Ry. (5 cents per cwt. on southbound traffic and $2\frac{1}{2}$ cents per cwt. on northbound traffic) and apply percentages shown to balance.

NOTE 3.—On points giving reference to Note 3, deduct 2 cents per cwt. for Cairo bridge before prorating and add back to M. & O. proportion before taking out land grant.

NOTE 4.—On points giving reference to Note 4, deduct Vicksburg transfer charge and apply percentages shown to balance.

NOTE 5.—On points giving reference to Note 5, percentages shown will not apply on shipments of live stock in carloads.

NOTE 6.—On points giving reference to Note 6, deduct before prorating 4 cents per cwt. and add back 2 cents per cwt., each, to the proportion of the I. C. R. R. and the M. & O. R. R. before taking out land grant.

NOTE 7.—On freight traffic between points giving reference to Note 7, allow I. & G. N. R. R. 30 per cent of through rate; deduct from remainder T. & P. Ry. arbitrary (5 cents per cwt. on southbound, $2\frac{1}{2}$ cents per cwt. on northbound traffic); balance accrues to the Mo. Pac. system north of Texarkana, from which authorized land-grant deduction should be made.

Schedule of land-grant mileages and percentages.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Albert Lea, Minn., and—					
Cairo, Ill.....	657.86	555.06	42.26	F.	Ill. Cent.
Martin, Tenn.....	710.45	552.51	38.885	F.	Do.
St. Louis, Mo.....	577.88	329.63	28.521	F. and P.	Do.
Springfield, Ill.....	476.33	329.63	34.601	F. and P.	Do.
Albuquerque, N. Mex., and—					
Ash Fork, Ariz.....	401.0	388.3	48.415	F. and P.	A., T. & S. F.
Atchison, Kans.....	902.43	470.58	26.073	F. and P.	Do.
Bakersfield, Cal.....	887.7	872.5	49.143	F. and P.	Do.
Barstow, Cal.....	747.0	734.3	49.15	F. and P.	Do.
Burton, Kans.....	688.35	206.5	19.081	F. and P.	Do.
Caldwell, Kans.....	797.86	285.5	17.892	F. and P.	Do.
Emporia, Kans.....	790.97	358.92	22.694	F. and P.	Do.
Flagstaff, Ariz.....	343.9	331.2	48.155	F. and P.	Do.
Fresno, Cal.....	998.1	872.5	43.708	F. and P.	Do.
Gallup, N. Mex.....	157.8	145.1	45.975	F. and P.	Do.
Guthrie, Okla.....	884.05	285.5	16.148	F. and P.	Do.
Holbrook, Ariz.....	253.0	240.3	47.49	F. and P.	Do.
Hutchinson, Kans.....	684.27	252.42	18.445	F. and P.	Do.
Kansas City, Mo.....	918.37	420.04	22.869	F. and P.	Do.
Kern Junction, Cal.....	885.2	872.5	49.283	F. and P.	Do.
Leavenworth, Kans.....	908.65	430.23	23.674	F. and P.	Do.
Los Angeles, Cal.....	888.1	734.3	41.341	F. and P.	Do.
Mojave, Cal.....	818.2	805.5	49.224	F. and P.	Do.
Needles, Cal.....	578.0	565.3	48.901	F. and P.	Do.
Oklahoma City, Okla.....	916.31	285.5	15.579	F. and P.	Do.
Purcell, Okla.....	949.59	285.5	15.033	F. and P.	Do.
St. Joseph, Mo.....	922.68	470.58	25.5	F. and P.	Do.
San Diego, Cal.....	970.6	734.3	37.827	F. and P.	Do.
San Francisco, Cal.....	1,199.4	872.5	36.372	F. and P.	Do.
Soldiers' Home, Kans.....	911.65	430.23	23.596	F. and P.	Do.
Stockton, Cal.....	1,121.2	872.5	38.909	F. and P.	Do.
Superior, Nebr.....	928.8	338.98	18.249	F. and P.	Do.
Topeka, Kans.....	851.89	420.04	24.654	F. and P.	Do.
Wichita, Kans.....	744.45	285.5	19.175	F. and P.	Do.
Wingate, N. Mex.....	146.2	133.5	45.656	F. and P.	Do.
Alexandria, Va., and—					
Calera, Ala.....	816.0	71.0	4.35	F.	Sou. Ry.
Army Point, Cal., and—					
Asuncion, Cal.....	244.0	32.5	6.66	F.	Sou. Pac.
Atascadero, Cal.....	247.1	32.5	6.576	F.	Do.
Bakersfield, Cal.....	284.35	73.4	12.906	F. and P.	Do.
Los Angeles, Cal.....	452.78	241.62	26.681	F. and P.	Do.
Mojave, Cal.....	352.37	141.13	20.026	F.	Do.
Monterey, Cal.....	144.8	32.5	11.222	F. and P.	Do.
Portland Oreg.....	736.7	604.0*	90.132	F. and P.	Do.

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Schedule of land-grant mileage and passenger—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant reduc- tion.	Freight or pas- senger.	Route.
Atchfork, Ariz., and—					
Los Angeles, Cal.....	487.1	348.9	35.515	F and P.	A., T. & S. F.
San Diego, Cal.....	569.4	346.1	36.892	F and P.	Do.
San Francisco, Cal.....	784.4	484.2	36.873	F and P.	Do.
Stockton, Cal.....	720.2	484.2	33.615	F and P.	Do.
Atchison, Kans., and—					
Albuquerque, N. Mex.....	902.43	470.58	26.073	F and P.	Do.
Bayard, N. Mex.....	1,177.27	470.58	19.888	F and P.	Do.
Burlington, Iowa.....	365.0	191.6	31.41	F and P.	C., B. & Q.
Cardwell, Kans.....	266.6	185.08	34.721	F and P.	A., T. & S. F.
Chicago, Ill.....	460.58	191.6	19.328	F and P.	C., B. & Q.
Coffeyville, Kans.....	217.78	68.28	15.675	F and P.	A., T. & S. F.
Colorado Springs, Colo.....	663.25	470.58	33.476	F and P.	Do.
Davenport, Iowa.....	385.0	191.6	24.833	F and P.	C., B. & Q.
Derby, N. Mex.....	1,133.07	470.58	20.766	F and P.	A., T. & S. F.
Denver, Colo.....	737.21	470.58	31.917	P.	Do.
Denver, Colo.....	735.35	470.58	31.967	F.	Do.
Des Moines, Iowa.....	217.0	33.2	7.65	F.	C., B. & Q.
Dubuque, Iowa.....	481.0	191.6	39.833	F and P.	Do.
East Hannibal, Ill.....	229.4	206.4	45.0	F and P.	Do.
El Paso, Tex.....	1,157.28	470.58	20.332	F and P.	A., T. & S. F.
Emporia, Kans.....	111.66	111.66	50.0	F and P.	Do.
Galesburg, Ill.....	327.0	191.6	29.296	F and P.	C., B. & Q.
Galveston, Tex.....				F.	Mo. Pac. Sys.
(Note 7.)					
Guthrie, Okla.....	352.67	185.08	26.24	F and P.	A., T. & S. F.
Hannibal, Mo.....	228.4	206.4	45.183	F and P.	C., B. & Q.
Holbrook, Ariz.....			35.068	F.	A., T. & S. F.
(Based on 58% E. 32% W. of Al- buquerque.)					
Hot Springs, Ark.....	620.02	182.39	29.417	F.	Mo. Pac. Sys.
Hutchinson, Kans.....	218.16	218.16	50.0	F and P.	A., T. & S. F.
Keokuk, Iowa.....	269.0	191.6	35.613	F and P.	C., B. & Q.
Kiowa, Kans.....	313.18	185.08	29.548	F and P.	A., T. & S. F.
Laredo, Tex. (Note 2)			25.26	F.	Mo. Pac. Sys.
(Based on 58% N. of Texarkana.)					
Las Animas, Colo.....	536.03	470.58	43.895	F and P.	A., T. & S. F.
Las Vegas, N. Mex.....	770.2	470.58	30.549	F and P.	Do.
Little Rock, Ark.....	567.36	159.58	28.233	F.	Mo. Pac. Sys.
New Orleans, La.....			29.113	F.	Do.
(Based on 68% N. of Texarkana.)					
Newton, Kans.....	185.08	185.08	50.0	F and P.	A., T. & S. F.
Oklahoma City, Okla.....	364.04	185.08	24.097	F and P.	Do.
Peoria, Ill.....	380.87	191.0	25.153	F and P.	C., B. & Q.
Perry, Okla.....	321.85	185.08	28.753	F and P.	A., T. & S. F.
Pittsburg, Kans.....	226.70	68.28	15.123	F and P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Atchison, Kans., and—					
Prescott, Ariz.			30.291	F.	A., T. & S. F.
(Based on 16% S. of Ash Fork, 46% E. 38% W. of Albuquerque.)					
Pueblo, Colo.	618.59	470.58	28.037	F. and P.	Do.
Purcell, Okla.	417.32	185.08	22.175	F. and P.	Do.
Quincy, Ill.	228.24	191.6	41.973	F. and P.	C., B. & Q.
Rock Island, Ill.	382.78	191.6	25.03	F. and P.	Do.
Salina, Kans.	216.41	191.6	30.406	F. and P.	A., T. & S. F.
San Antonio, Tex. (Note 2). (Based on 64% N. of Texarkana.)			27.4	F.	Mo. Pac. Ry.
San Diego, Cal.			32.655	F.	A., T. & S. F.
(Based on 44% E. and 56% W. of Albuquerque.)					
Santa Fe, N. Mex.	853.17	470.58	27.579	F. and P.	Do.
Shawnee, Okla.	406.48	185.08	22.766	F. and P.	Do.
Sterling, Kans.	236.71	236.71	50.0	F. and P.	Do.
St. Louis, Mo.	344.4	206.4	29.621	P.	C., B. & Q.
St. Louis, Mo.	344.3	206.4	29.97	F.	Do.
Texarkana, Ark.	710.91	304.36	42.813	F.	Mo. Pac. Sys.
Topeka, Kans.	59.0	80.0	50.0	F. and P.	A., T. & S. F.
Trinidad, Colo.	636.43	470.58	26.971	F. and P.	Do.
Wellington, Kans.	245.34	185.08	37.72	F. and P.	Do.
Wichita, Kans.	212.18	185.08	43.614	F. and P.	Do.
Winfield, Kans.	259.66	185.08	36.919	F. and P.	Do.
Wingate, N. Mex.			34.298	F.	Do.
(Based on 58% E. and 42% W. of Albuquerque.)					
Atlanta, Ga., and—					
Calera, Ala.	175.0	71.0	20.286	F. and P.	Sou. Ry.
Jacksonville, Fla. (Based on 22.2% E. of Lake City.)			11.10	F.	A. C. L.
Mobile, Ala.			29.542	F.	Sou. Ry., A. G. S., and M. & O.
(Based on 36.8% to Birmingham, 33.5% to Merid- ian, 29.7% to Mobile.)					
New Orleans, La.			22.5	F.	Sou. Ry., and L. & N.
(Based on 36% N. and 66% S. of Calera.)					

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Atlanta, Ga., and— Pensacola, Fla. (Based on 37.8% N. and 62.2% S. of Calera.)			38.77	F.	Sou. Ry., and L. & N.
Bakersfield, Cal., and—					
Berenda, Cal.	136.4	73.04	26.906	F. and P.	Sou. Pac.
El Paso, Tex.	980.38	416.6	21.247	F. and P.	Do.
Monterey, Cal.	364.96	105.9	14.508	F. and P.	Do.
Portland, Oreg.	953.4	73.4	73.495	F.	Do.
Portland, Oreg.	958.79	664.0*	73.081	P.	Do.
San Francisco, Cal. ...	314.04	73.4	11.674	F. and P.	Do.
San Jose, Cal.	289.76	73.4	12.665	F. and P.	Do.
Benicia, Cal., and—					
Huachuca, Ariz.	1,029.84	490.0	23.838	F. and P.	Do.
Los Angeles, Cal.	451.17	241.62	26.777	F. and P.	Do.
Portland, Oreg.	738.1	664.0*	89.961	F. and P.	Do.
Billings, Mont., and—					
Crawford, Nebr. ¹	418.9	12.6	1.504	F. and P.	C., B. & Q.
Deadwood, S. Dak. ¹ ..	472.6	12.6	1.333	F. and P.	Do.
Denver, Colo. ¹	714.3	12.6	.882	F. and P.	Do.
Minnesota Tfr., Minn. ...	910.0	834.44	45.848	F.	Nor. Pac.
Portland, Oreg.	1,159.5	1,159.5	50.0	F. and P.	Do.
St. Paul, Minn.	916.0	834.44	45.55	F.	Do.
St. Paul, Minn.	917.0	842.7	45.915	P.	Do.
Seattle, Wash.	1,040.0	1,009.0	48.510	F. and P.	Do.
Sheridan, Wyo. ¹	143.2	12.6	4.399	F. and P.	C., B. & Q.
Vancouver, Wash.	1,153.0	1,124.0	48.742	F. and P.	Nor. Pac.
Birmingham, Ala., and—					
Chattanooga, Tenn. ...	143.0	111.22	38.888	F. and P.	A. G. S.
Cincinnati, Ohio.	481.0	111.22	11.561	F.	Q. & C. Sys.
Decatur, Ala.	87.0	87.0	50.0	F. and P.	L. & N.
Evansville, Ind.	265.6	86.2	11.789	F. and P.	Do.
Louisville, Ky.	394.0	86.2	10.939	F. and P.	Do.
Memphis, Tenn.			17.35	F.	L. & N. and Sou. Ry.
(Based on 34.7% S. of Decatur.)					
Meridian, Miss.	153.0	134.0	43.791	F. and P.	A. G. S.
Mobile, Ala.	275.9	216.3	39.199	F. and P.	L. & N.
Montgomery, Ala.	96.8	96.8	50.0	F. and P.	Do.
Nashville, Tenn.	207.5	86.2	20.771	F. and P.	Do.
New Orleans, La.	415.6	216.3	28.023	F. and P.	Do.
River Jct., Fla.	420.2	420.2	50.0	F.	Do.

¹ The C., B. & Q. R. R. operates over the land-grant line of the Nor. Pac. Ry. from Huntley, Mont., into Billings, a distance of 12.6 miles.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Burton, Kans., and—					
Bayard, N. Mex.	973.19	266.5	13.602	F. and P.	A., T. & S. F.
Deming, N. Mex.	928.99	266.5	14.344	F. and P.	Do.
Denver, Colo.	533.13	266.5	24.994	F. and P.	Do.
El Paso, Tex.	951.98	266.5	13.997	F. and P.	Do.
Pueblo, Colo.	414.51	266.5	32.147	F. and P.	Do.
St. Louis, Mo.	553.3	252.8	22.844	P.	St. L. & S. F.
St. Louis.	538	252.8	23.5	F.	Do.
Cairo, Ill., and—					
Albany, N. Y.			12.0	F.	Ill. Cent.
(Based on 24% S. of Chicago.)					
Albert Lea, Minn.	657.86	555.96	42.255	F. and P.	Do.
Alexandria, La.	544.83	249.92*	45.871	F.	Mo. Pac. Sys.
Austin, Tex. (Note 2)			54.586	F.	Do.
(Based on 55% N. of Texarkana.)					
Baltimore, Md. (Note 1).			12.0	F.	Ill. Cent.
(Based on 24% S. of Chicago.)					
Benton, Ark.	276.97	273.98*	96.92	F.	Mo. Pac. Sys.
Boston, Mass. (Note 1).			12.0	F.	Ill. Cent.
(Based on 24% S. of Chicago.)					
Chicago, Ill.	365.0	365.0	50.0	F. and P.	Do.
Columbus, Miss.	287.2	114.08	19.86	F. and P.	M. & O.
Corinth, Miss.	163.6	4.48	1.369	F. and P.	Do.
Detroit, Mich.			23.0	F.	Ill. Cent.
(Based on 56% S. of Chicago.)					
Dixon, Ill.	352.0	352.0	50.0	F. and P.	Do.
East St. Louis, Ill.	148.89	56.89	19.105	F. and P.	Do.
El Paso, Tex.			30.759	F.	Mo. Pac. Sys.
(Based on 32% N. Texarkana.)					
Fort Gibson, Okla.	473.59	406.24*	84.882	F.	Do.
Fort Smith, Ark.	414.36	411.37*	99.302	F.	Do.
Freeport, Ill.	388.13	388.13	50.0	F. and P.	Ill. Cent.
Galveston, Tex. (Note 2).			58.059	F.	Mo. Pac. Sys.
(Based on 58.5% N. of Texar- kana.)					
Hot Springs, Ark.	307.38	273.31*	88.916	F.	Do.
Hoxie, Ark.	134.39	131.4*	97.775	F.	Do.
Jeffersonville, Ind. (Based on 32.12% S. of Odin.)			16.06	F.	Ill. Cent. and B. & O. S. W.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Cairo, Ill., and— Laredo, Tex. (Note 2). (Based on 44.5% N. of Texar- kana.)	-----	-----	43.165	F.	Mo. Pac. Sys.
La Salle, Ill.	308.8	308.8	50.0	F. and P.	Ill. Cent.
Little Rock, Ark.	253.71	249.92*	99.506	F.	Mo. Pac. Sys.
Madison, Wis.	449.73	388.13	43.151	F. and P.	Ill. Cent.
Meridian, Miss.	357.0	198.28	27.77	F. and P.	M. & O.
Mobile, Ala.	492.4	333.28	33.842	F. and P.	Do.
Montgomery, Ala.	454.4	114.08	12.533	F. and P.	Do.
Nettleton, Ark.	146.25	103.55*	70.803	F.	Mo. Pac. Sys.
New Orleans, La. (Note 3). (Divide over Me- ridian 63.9% N. and 36.1% S.)	-----	-----	-----	F.	M. & O. and N. O. & N. E.
New York, N. Y. (Note 1). (Based on 24% S. of Chicago.)	-----	-----	12.0	F.	Ill. Cent.
Omaha, Nebr.	789.32	654.62	41.468	F.	Do.
Philadelphia, Pa. (Note 1). (Based on 24% S. of Chicago.)	-----	-----	12.0	F.	Do.
St. Louis, Mo.	153.7	56.89	18.5	F.	Do.
San Antonio, Tex. (Note 2). (Based on 50% N. of Texarkana.)	-----	-----	49.623	F.	Mo. Pac. Sys.
Spofford, Tex. (Allow 35% W. of San Antonio and divide bal- ance on San Antonio basis.)	-----	-----	-----	F.	Do.
Syracuse, N. Y. (Based on 24% S. of Chicago.)	-----	-----	12.0	F.	Ill. Cent.
Texarkana, Ark.	397.3	394.31*	99.247	F.	Mo. Pac. Sys.
Tupelo, Miss.	213.2	54.08	12.682	F. and P.	M. & O.
Virginia com. pts. Washington, D. C. (Note 1). (Based on 24% S. of Chicago.)	-----	-----	12.0	F.	Ill. Cent.
Wagoner, Okla.	492.33	406.24*	82.513	F.	Mo. Pac. Sys.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Calera, Ala., and—					
Alexandria, Va.....	816.0	71.0	4.35	F.	Sou. Ry.
Mobile, Ala.....	943.0	182.0	37.448	F. and P.	L. & N.
New Orleans, La.....	884.0	182.0	23.695	F. and P.	Do.
Pensacola, Fla.....	226.0	226.0	50.0	F. and P.	Do.
Chattanooga, Tenn., and—					
Bessemer, Ala.....	154.0	122.22	39.682	F. and P.	A. G. S.
Gadsden, Ala.....	92.0	60.22	32.728	F. and P.	Do.
Meridian, Miss.....	295.5	244.94	41.445	F. and P.	Do.
Mobile, Ala.....			44.131	F.	A. G. S. and M. & O.
(Based on 68.6% N. and 31.4% S. of Meridian.)					
New Orleans, La.....	498.0	244.94	24.592	F.	Q. & C. Sys.
Pensacola, Fla.....			46.211	F.	A. G. S. and L. & N.
(Based on 34.1% N. and 65.9% S. of Birmingham.)					
Shreveport, La. (Note 4.)	608.0	509.5	41.9	F.	Q. & C. Sys.
Tuscaloosa, Ala.....	199.0	166.6	41.859	F. and P.	A. G. S.
Vicksburg, Miss.....	436.0	340.94	39.1	F.	Q. & C. Sys.
Chicago, Ill., and—					
Aberdeen, S. Dak....	701.4	{ 39.0 201.0* }	31.437	F.	C., M. & St. P.
Albany, N. Y.....			5.0	F.	Ill. Cent.
(Based on 10% N. of Kankakee.)					
Alexandria, S. Dak....	600.3	221.78	18.473	F.	C. M., & St. P.
Ann Arbor, Mich. ¹ ...	246.8	14.36	2.909	F.	Mich. Cent.
Do. ¹	245.5	13.09	2.666	P.	Do.
Ashland, Wis.....	436.0	186.0	21.33	F. and P.	M., St. P. and S. S. M.
Atchison, Kans.....	490.58	191.6	19.528	F. and P.	C., B. & Q.
Baltimore, Md. (Note 1.)			5.0	F.	Ill. Cent.
(Based on 10% N. of Kankakee.)					
Baton Rouge, La.....	892.53	361.35	20.243	F.	Do.
Bay City, Mich. ¹ ...	323.7	{ 14.36 77.6* }	26.024	F.	Mich. Cent.
Bloomington, Ill.....	141.13	60.19	21.324	F.	Ill. Cent.
Boston, Mass.....			5.0	F.	Do.
(Based on 10% N. of Kankakee.)					

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[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Chicago, Ill., and—					
Buffalo, N. Y.	321.27	14.36	1.37	F.	Mich. Cent.
Camp Douglas, Wis.	227.9	36.0	8.556	F.	C. & M. & St. P.
Canton, S. Dak.	334.4	221.78	20.741	F.	Do.
Casper, Wyo.	1,103.1	248.8	11.277	F.	C. & N. W.
Cedar Rapids, Iowa.	270.3	115.2	21.309	F. and P.	Ill. Cent.
Chamberlain, S. Dak.	680.0	221.78	16.31	F.	C. & M. & St. P.
Cincinnati, Ohio.			14.5	F.	Ill. Cent. and C. & C. & St. L.
(Based on 26% N. of Kankakee.)					
Cleveland, Ohio.			8.55	F.	Do.
(Based on 17.1% N. of Kankakee.)					
Columbus, Ohio.			10.75	F.	Do.
(Based on 21.5% N. of Kankakee.)					
Cornell Bluffs, Iowa.	500.5	317.75	31.743	F. and P.	C., R. I. & P.
Decatur, Ill.	174.04	127.62	36.664	F.	Ill. Cent.
Des Moines, Iowa.	357.8	171.1	24.469	F. and P.	C., R. I. & P.
Detroit, Mich.	285.16	14.36	2.518	F.	Mich. Cent.
Dubuque, Iowa.	181.6	68.6	18.887	F. and P.	Ill. Cent.
Duluth, Minn.			31.58	F.	C. & N. W. and Nor. Pac.
(Based on 66% S. and 33% N. of St. Paul.)					
E. St. Louis, Ill.	289.83	81.08	13.988	F. and P.	Ill. Cent.
Eau Claire, Wis.	312.2	88.4	14.158	F. and P.	C. & N. W. and C., St. P., M. & O.
Escanaba, Mich.	328.0	180.0	27.435	F.	C. & N. W.
Evansville, Ind.	299.94	172.14	28.696	F. and P.	Ill. Cent.
Fargo, N. Dak.	708.9	200.9*	28.34	F.	C. & M. & St. P.
Fort Dodge, Iowa.	374.73	260.42	34.747	F. and P.	Ill. Cent.
Fort Riley, Kans.			10.531	F.	C., B. & Q. and Union Pac.
(Note 5.)					
(Based on 50% east of Leavenworth.)					
Fort Robinson, Nebr.	939.4	248.8	13.242	F.	C. & N. W.
Fort Snelling, Minn.	398.5	172.6	21.655	F.	C. & N. W. and C., St. P., M. & O.
Do.	401.7	172.6	21.483	P.	Do.
Grand Rapids, Mich.			22.05	F.	Mich. Cent. and G. R. & I.
(Based on 62.2% S. and 37.8% N. of Kalamazoo.)					

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[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Chicago, Ill., and—					
Green Bay, Wis.....	213.8	65.5	15.318	F.	C. & N. W.
Hot Springs, S. Dak..	979.6	248.8	12.7	F.	Do.
Huron, S. Dak.....	646.0	221.0	17.6	F.	Do.
Indianapolis, Ind.			17.5	F.	Ill. Cent. and C., C., C. & St. L.
(Based on 35% N. of Kankakee.)					
Ishpeming, Mich.....	393.5	241.2	30.648	F.	C. & N. W.
Jackson, Mich. ¹	209.77	14.36	3.423	F.	Mich. Cent.
Do. ¹	209.32	13.09	3.126	P.	Do.
Jeffersonville, Ind.			10.0	F.	Ill. Cent. and C., C., C. & St. L.
(Based on 20% N. of Kankakee.)					
Kalamazoo, Mich. ¹	141.77	14.36	5.064	F.	Mich. Cent.
Kansas City, Mo.....	487.76	156.87	16.081	F. and P.	C., B. & Q.
Kimball, S. Dak.....	659.96	221.78	16.802	F.	C., M. & St. P.
La Crosse, Wis.....	281.8	89.0	6.92	F.	Do.
La Fayette, Ind.			22.5	F.	Ill. Cent. and C., C., C. & St. L.
(Based on 45% N. of Kankakee.)					
Lansing, Mich.....	233.0	60.0*	25.751	F. and P.	L. S. & M. S.
Lathrop, Mo.....	449.57	156.87	17.446	F. and P.	C., B. & Q.
Lawrence, Ind.			20.05	F.	Ill. Cent. and C., C., C. & St. L.
(Based on 40.1% N. of Kanka- kee.)					
Leavenworth, Kans..	509.25	191.54	18.806	F. and P.	C., B. & Q.
Lincoln, Nebr.....	561.4	317.75	28.3	F.	C., R. I. & P.
Mackinaw City, Mich. ¹	506.07	$\left\{ \begin{array}{l} 14.36 \\ 259.0^* \end{array} \right\}$	52.597	F.	Mich. Cent.
Do. ¹	505.6	$\left\{ \begin{array}{l} 13.09 \\ 259.0^* \end{array} \right\}$	52.521	P.	Do.
Memphis, Tenn.....	526.61	361.35	34.309	F. and P.	Ill. Cent.
Minneapolis, Minn...	409.35	183.55	22.42	F. and P.	C. & N. W. and C., St. P., M. & O.
Minnesota Tr., Minn.	404.4	178.6	22.082	F.	Do.
Negaunee, Mich.....	390.5	241.2	30.883	F.	C. & N. W.
New Orleans, La.				F.	Ill. Cent. and M & O.
(Note 3.)					
(Divide 39.9% N. and 60.1% S. of Cairo.)					
New York, N. Y.			5.0	F.	Ill. Cent.
(Note 1.)					
(Based on 10% N. of Kankakee.)					

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[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Chicago, Ill., and— Omaha, Nebr. Do. (Deduct bridge charges and divide on Council Bluffs.)	503.4	317.75	31.56	F. P.	C., R. I. & P. Do.
Oshkosh, Wis.	165.8	17.5	5.277	F.	C. & N. W.
Owosso, Mich. ¹	260.2	14.36	13.096	F.	Mich. Cent.
Peoria, Ill.	213.23	27.0*	19.012	F. and P.	Ill. Cent.
Philadelphia, Pa. (Note 1.)		81.08	5.0	F.	Do.
(Based on 10% N. of Kankakee.)					
Rapid City, S. Dak.	1,014.5	248.8	12.262	F.	C. & N. W.
St. Joseph, Mich. ¹	103.06	14.36	6.966	F.	Mich. Cent.
St. Joseph, Mo.	468.28	191.6	20.457	F. and P.	C., B. & Q.
St. Louis, Mo.	282.93	81.08	13.839	F.	Ill. Cent.
St. Paul, Minn.	898.4	172.6	21.662	F.	C. & N. W. and C. St. P., M. & O.
Do.	399.8	172.6	21.586	P.	Do.
Saginaw, Mich. ¹	309.56	14.36	22.772	F.	Mich. Cent.
Sault Ste. Marie, Mich. (Based on 80.4% S. of Mackinaw City.)		63.1*	42.288	F.	Mich. Cent. and D., S. S. & A.
Sioux City, Iowa	509.64	395.33	33.79	F. and P.	Ill. Cent.
Sioux Falls, S. Dak.	547.03	336.22	30.73	F.	Do.
Sisseton, S. Dak.	643.6	39.0	34.287	F.	C., M. & St. P.
Sparta, Wis.	258.0	201.0*	7.558	F.	Do.
Springfield, Ill.	193.2	39.0	20.984	F. and P.	Ill. Cent.
Sturgis, S. Dak.	1,043.7	81.08	11.919	F.	C. & N. W.
Superior, Wis.	531.6	248.8	28.753	F.	C. & N. W. and C., St. P., M. & O.
Suspension Bridge, N. Y. ¹	512.67	305.7	1.4	F.	Mich. Cent.
Syracuse, N. Y.		14.36	5.0	F.	Ill. Cent.
(Based on 10 % N. of Kankakee.)					
Toledo, Ohio.			9.4	F.	Ill. Cent. and C., C., C. & St. L.
(Based on 18.8 % N. of Kankakee.)					

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Chicago, Ill., and—					
Wahpeton, N. Dak...	663.7	{ 39.0 291.0* }	33.222	F.	C., M. & St. P.
Washington, D. C., (Note 1), (Based on 10% N. of Kankakee.)			5.0	F.	Ill. Cent.
Watertown, S. Dak...	610.0	323.22	26.493	F.	C. & N. W.
Winona, Minn.....	308.9	39.0	6.306	F.	C., M. & St. P.
Woonsocket, S. Dak..	677.1	{ 57.0 279.37* }	45.468	F.	Do.
Cincinnati, Ohio, and—					
Meridian, Miss.....	633.5	244.94	19.332	F.	Q. & C. Sya.
Montgomery, Ala.....	604.4	183.0	15.139	F. and P.	L. & N.
New Orleans, La.....	922.5	301.8	16.358	F. and P.	Do.
Pensacola, Fla.....	766.8	345.4	22.522	F. and P.	Do.
River Junction, Fla..	927.9	506.5	27.296	F. and P.	Do.
Clinton, Iowa, and—					
Casper, Wyo.....	965.6	248.8	12.883	F.	C. & N. W.
Fort Robinson, Nebr.	801.9	248.8	15.513	F.	Do.
Gettysburg, S. Dak...	615.8	152.6	12.390	F.	Do.
Norfolk, Nebr.....	449.7	248.8	27.663	F.	Do.
Pierre, S. Dak.....	639.1	106.8	8.355	F.	Do.
Sturgis, S. Dak.....	906.2	248.8	13.727	F.	Do.
Watertown, S. Dak..	478.9	152.6	16.033	F.	Do.
Columbus, Miss., and—					
Aberdeen, Miss.....	45.09	22.09	24.496	F. and P.	M. & O.
Tupelo, Miss.....	73.75	59.75	40.506	F. and P.	Do.
Osgrove, Wash., and—					
Bismarck, N. Dak....	1,474.9	1,470.5	49.851	F. and P.	Nor. Pac.
Missoula, Mont.....	668.4	664.0	49.671	F. and P.	Do.
Tacoma, Wash.....	12.1	7.8	32.231	F. and P.	Do.
Council Bluffs, Iowa, and—					
Blair, Nebr.....	34.8	21.4	30.747	F.	C. & N. W.
Casper, Wyo.....	656.9	21.4	1.629	F.	Do.
Des Moines, Iowa....	141.0	141.0	50.0	F. and P.	C., R. I. & P.
Do.....	201.8	164.8	41.7	F.	C. & N. W.
Fort Robinson, Nebr.	493.2	21.4	2.169	F.	Do.
Fort Snelling, Minn..	374.0	292.05	39.044	F.	C. & N. W. and C., St. P., M. & O.
Gettysburg, S. Dak...	427.0	62.5	7.318	F.	C. & N. W.
La Salle, Ill.....	401.4	317.75	39.06	F.	C., R. I. & P.
Lathrop, Mo.....	177.7	34.7	9.764	F.	C., B. & Q.
Mankato, Minn.....	282.3	206.6	36.593	F.	C. & N. W. and C., St. P., M. & O.
Minneapolis, Minn...	377.15	295.7	39.202	F. and P.	Do.
Minnesota Tr., Minn.	372.7	290.75	39.006	F.	Do.

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Connell Bluffs, Iowa, and—					
Peoria, Ill.....	411.0	317.75	38.655	F. and P.	C., R. I. & P.
Rock Island, Ill.....	319.4	317.75	49.74	F. and P.	Do.
St. Paul, Minn.....	366.7	284.75	38.826	F.	C. & N. W. and C., St. P., M. & O., C. & N. W.
Sioux City, Iowa.....	97.1	21.4	11.019	F.	Do.
Sturgis, S. Dak.....	597.5	21.4	1.791	F.	Do.
Valentine, Nebr.....	327.2	21.4	3.27	F.	Do.
Deming, N. Mex., and—					
Colton, Cal.....	666.4	191.0	14.33	F. and P.	Sou. Pac.
Emporia Junction, Kans.....	1,022.15	359.66	17.594	F. and P.	A., T. & S. F.
Kansas City, Mo.....	1,149.01	420.04	18.279	F. and P.	Do.
Leavenworth, Kans.....	1,139.33	430.23	18.881	F. and P.	Do.
Los Angeles, Cal.....	726.2	248.38	17.101	F. and P.	Sou. Pac.
Monterey, Cal.....	1,257.14	522.5	20.781	F. and P.	Sou. Pac. via Val- ley Div.
Monterey, Cal.....	1,101.68	257.39	11.682	P.	Sou. Pac. via Coast Div.
Oklahoma City, Okla.....	1,146.95	285.5	12.446	F. and P.	A., T. & S. F.
Portland, Oreg.....	1,846.01	604.0*	49.241	F.	Sou. Pac. Sys.
Portland, Oreg.....	1,851.32	490.0	49.1	P.	Do.
Sacramento, Cal.....	1,169.08	490.0	20.955	F. and P.	Do.
St. Joseph, Mo.....	1,153.07	470.58	20.406	F. and P.	A., T. & S. F.
Salina, Kans.....	1,086.28	338.98	15.603	F. and P.	Do.
Soldiers Home, Kans.....	1,142.33	430.23	18.831	F. and P.	Do.
Topeka, Kans.....	1,082.53	420.04	19.401	F. and P.	Do.
Denver, Colo., and—					
Billings, Mont.....	714.3	12.6	.882	F. and P.	C., B. & Q.
Burton, Kans.....	533.13	266.5	24.984	F. and P.	A., T. & S. F.
Emporia Junction, Kans.....	624.24	359.66	28.808	F.	Do.
Emporia Junction, Kans.....	625.46	359.66	28.751	P.	Do.
Guthrie, Okla.....	717.67	285.5	19.891	F. and P.	Do.
Hutchinson, Kans.....	517.19	252.42	24.403	F. and P.	Do.
Holbrook, Ariz.....			18.046	F.	Do.
(Based on 33% W. of Albuquerque.)					
Hot Springs, Ark.....			29.495	F.	A., T. & S. F. and Mo. Pac. Sys.
(Based on 60% W. and 40% E. of Kansas City.)					
Kansas City, Mo.....	751.29	420.04	27.955	F.	A., T. & S. F.
Leavenworth, Kans.....	742.21	430.23	28.983	F.	Do.
Leavenworth, Kans.....	743.43	430.23	28.936	F.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Denver, Colo., and—					
Little Rock, Ark.			20.029	F.	A., T. & S. F.
(Based on 60% W. and 40% E. of Kansas City.)					
Los Angeles, Cal.			26.872	F.	Do.
(Based on 65% W. of Albuquerque.)					
Memphis, Tenn.			29.642	F.	A., T. & S. F. and Mo. Pac. Sys.
(Based on 60% W. and 40% E. of Kansas City.)					
Oklahoma City, Okla.	749.04	285.5	19.058	F. and P.	A., T. & S. F.
Prescott, Ariz.			17.429	F.	Do.
(Based on 36% between Albuquerque and Ash Fork.)					
Purcell, Okla.	782.32	285.5	18.247	F. and P.	Do.
St. Joseph, Mo.	755.95	470.58	31.125	F.	Do.
St. Joseph, Mo.	758.06	470.58	31.039	P.	Do.
San Diego, Cal.			24.588	F.	Do.
(Based on 66% W. of Albuquerque.)					
Topeka, Kans.	684.81	420.04	30.660	F. and P.	Do.
Wichita, Kans.	577.18	285.5	24.733	F. and P.	Do.
Wingate, N. Mex.			17.349	F.	Do.
(Based on 38% W. of Albuquerque.)					
Des Moines, Iowa, and—					
Burlington, Iowa.	197.9	136.4	34.462	F. and P.	C., R. I. & P.
Fort Crook, Nebr.	194.52	125.68	32.305	F.	C., B. & Q.
Fort Leavenworth, Kans.	236.0	33.2	7.034	F.	Do.
Fort Reno, Okla.	684.4	142.7	10.425	F.	C., R. I. & P.
Fort Sheridan, Ill.	384.2	106.8	13.899	F.	C. & N. W.
Hannibal, Mo.	267.5	98.3	18.373	F. and P.	C., B. & Q.
Kansas City, Mo.	257.9	33.2	6.43	F. and P.	Do.
La Salle, Ill.	258.7	175.1	33.84	F.	C., R. I. & P.
Omaha, Nebr.	145.6	142.7	49.0	F.	Do.
Rock Island, Ill.	176.7	175.1	49.547	F. and P.	Do.
St. Joseph, Mo.	194.7	33.2	8.52	F.	C., B. & Q.
East Burlington, Ill., and—					
Fort Crook, Nebr.	291.68	279.98	47.99	F.	Do.
Pacific Junction, Iowa	277.8	276.16	49.705	F. and P.	Do.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
East St. Louis, Ill., and—					
Albany, N. Y. (east bound). (Based on 77% E. of Chicago.)	.....	.....	3.85	F.	Ill. Cent. and White Line.
Albany, N. Y. (west bound). (Based on 76.9% E. of Chicago.)	.....	.....	3.845	F.	Do.
Baltimore, Md. (east bound), (Note 1). (Based on 77% E. of Chicago.)	.....	.....	3.85	F.	Do.
Baltimore, Md. (west bound), (Note 1). (Based on 76.7% E. of Chicago.)	.....	.....	3.835	F.	Do.
Boston, Mass. (east bound). (Based on 77% E. of Chicago.)	.....	.....	3.85	F.	Do.
Boston, Mass. (west bound). (Based on 78.6% E. of Chicago.)	.....	.....	3.93	F.	Do.
Columbus, Miss.	433.8	114.8	13.0	F.	M. & O.
Fort Dodge, Iowa.	566.12	422.19	37.288	F.	Ill. Cent.
Freeport, Ill.	305.12	161.77	26.509	F. and P.	Do.
Harvey, Ill.	272.04	61.29	11.265	F.	Do.
Hot Springs, Ark.	435.31	226.99*	52.144	F.	Mo. Pac. Sys.
Iowa Falls, Iowa.	517.12	373.17	36.082	F.	Ill. Cent.
La Salle, Ill.	225.89	82.54	18.27	F.	Do.
Little Rock, Ark.	381.64	203.6*	53.348	F.	Mo. Pac. Sys.
Martin, Tenn.	201.48	53.44	13.262	F.	Ill. Cent.
New York, N. Y. (east bound), (Note 1). (Based on 77% E. of Chicago.)	.....	.....	3.85	F.	Ill. Cent. and White Line.
New York, N. Y. (west bound), (Note 1). (Based on 77.9% E. of Chicago.)	.....	.....	3.895	F.	Do.
Philadelphia, Pa. (east and west bound), (Note 1). (Based on 77% E. of Chicago.)	3.85	F.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
East St. Louis, Ill., and—					
River Junction, Fla..	947.8	506.5	26.72	F.	L. & N.
Syracuse, N. Y. (east bound).			3.85	F.	Ill. Cent. and White Line.
(Based on 77% E. of Chicago.)					
Syracuse, N. Y. (west bound).			3.75	F.	Do.
(Based on 75% E. of Chicago.)					
Texarkana, Ark.....	526.2	348.96*	66.317	F.	Mo. Pac. Sys.
Tupelo, Miss.....	364.8	54.06	7.412	F.	M. & O.
Washington, D. C. (east bound), (Note 1).			3.85	F.	Ill. Cent. and White Line.
(Based on 77% E. of Chicago.)					
Washington, D. C. (west bound), (Note 1).			3.835	F.	Do.
(Based on 76.7% E. of Chicago.)					
El Paso, Tex., and—					
Emporia Junction, Kans.	1,046.36	359.66	17.186	F. and P.	A., T. & S. F.
Hutchinson, Kans...	939.12	252.42	13.439	F. and P.	Do.
Leavenworth, Kans..	1,162.28	430.23	18.508	F. and P.	Do.
Los Angeles, Cal.....	812.31	248.38	15.288	F. and P.	Sou. Pac.
Marysville, Cal.....	1,304.42	490.0	21.405	F.	Do.
		34.3*			
Marysville, Cal.....	1,308.93	490.0	21.338	P.	Do.
		34.3*			
Oklahoma City, Okla	1,171.16	285.5	12.189	F. and P.	A., T. & S. F.
Portland, Oreg.....	1,933.91	490.0	47.003	F.	Sou. Pac.
		664.0*			
Portland, Oreg.....	1,939.32	490.0	46.872	P.	Do.
		664.0*			
Topeka, Kans.....	1,106.74	420.04	18.977	F. and P.	A., T. & S. F.
Emporia Junction, Kans., and—					
Bayard, N. Mex.....	1,066.35	359.66	16.865	F. and P.	Do.
Guthrie, Okla.....	292.1	63.97*	21.9	F. and P.	M., K. & T.
Junction City, Kans...	61.8	61.8*	100.0	F. and P.	Do.
Las Animas, Colo.....	425.11	359.66	42.302	F. and P.	A., T. & S. F.
Oklahoma City, Okla	301.6	63.97*	21.21	F. and P.	M., K. & T.
Pueblo, Colo.....	507.67	359.66	35.423	F. and P.	A., T. & S. F.
San Antonio, Tex.....	777.9	63.97*	8.223	F.	M., K. & T.
San Antonio, Tex.....	743.1	63.97*	8.608	P.	Do.
Trinidad, Colo.....	525.51	359.66	34.22	F. and P.	A., T. & S. F.
Wichita, Kans.....	101.3	74.2	36.624	F. and P.	Do.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Fort Wayne, Ind., and—					
Cadillac, Mich.....	240.0	185.0	38.542	F. and P.	G. R. & I.
Grand Rapids, Mich.....	142.2	87.2	30.661	F. and P.	Do.
Kalamazoo, Mich.....	93.6	38.6	20.619	F. and P.	Do.
Lansing, Mich.....	136.0	60.0 *	44.118	F. and P.	Do.
Petokey, Mich.....	333.0	278.0	41.741	F. and P.	Do.
Vicksburg, Mich.....	81.2	27.0	16.626	F. and P.	Do.
Freeport, Ill., and—					
Springfield, Ill.....	206.57	161.77	39.155	F.	Ill. Cent.
Hot Springs, Ark., and—					
Fort Crook, Nebr.....	759.32	181.11*	23.851	F.	Mo. Pac. Sys.
Fort Leavenworth, Kans.	600.44	181.11*	30.162	F.	Do.
Independence, Kans.....	395.5	181.11*	45.792	F.	Do.
Jefferson Barracks, Mo.	389.74	202.54*	51.967	F.	Do.
Little Rock, Ark.....	56.67	24.79*	43.744	F.	Do.
Little Rock, Ark.....	53.67	22.59*	42.09	P.	Do.
Omaha, Nebr.....	782.23	181.11*	23.153	F.	Do.
Pueblo, Colo.....			34.52	F.	Mo. Pac. Sys. and A., T. & S. F.
(Based on 40% E. and 60% W. of Kansas City.)					
State Line, Okla.-Kans.	381.25	188.55*	49.456	P.	Mo. Pac. Sys.
Jackson, Tenn., and—					
Mobile, Ala.....	398.1	333.28	43.16	F. and P.	M. & O.
Montgomery, Ala.....	346.5	114.08	16.462	F.	Do.
Montgomery, Ala.....	348.1	114.08	16.396	P.	Do.
Jacksonville, Fla., and—					
Leesburg, Fla.....	138.5	127.1	45.884	F. and P.	S. A. L.
Mobile, Ala.....			43.705	F.	S. A. L. and L. & N.
(Based on 44.1% E. and 55.9% W. of River Junction.)					
New Orleans, La.....			33.749	F.	Do.
(Based on 34.1% E. and 65.9% W. of River Junction.)					
Orlando, Fla.....	181.1	127.1	35.091	F. and P.	S. A. L.
Pensacola, Fla.....			50.0	F. and P.	S. A. L. and L. & N.
River Junction, Fla..	209.0	209.0	50.0	F. and P.	S. A. L.
Tampa, Fla.....	211.7	211.7	50.0	F.	Do.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Jefferson Barracks, Mo., and—					
Alexandria, La.....	627.18	179.15*	28.564	F. and P.	Mo. Pac. Sys.
Fort Smith, Ark.....	496.72	340.6 *	68.57	F. and P.	Do.
Hoxie, Ark.....	216.75	60.63*	27.972	F. and P.	Do.
Little Rock, Ark.....	336.07	179.15*	53.307	F.	Do.
Little Rock, Ark.....	336.07	179.95*	53.545	P.	Do.
Memphis, Tenn.....	316.92	32.78*	10.343	F. and P.	Do.
St. Louis, Mo.....	12.75	2.34*	9.176	P.	Do.
Texarkana, Ark.....	480.68	324.51*	67.517	F. and P.	Do.
Junction City, Kans., and—					
Alvarado, Tex.....	554.6	125.77*	22.677	F. and P.	M., K. & T.
Chanute, Kans.....	130.9	125.77*	96.08	F. and P.	Do.
Chetopa, Kans.....	180.71	125.77*	69.597	F. and P.	Do.
Coffeyville, Kans.....	188.3	125.77*	66.792	F. and P.	Do.
Emporia Junction, Kans.....	61.8	61.8 *	100.0	F. and P.	Do.
Denison, Tex.....	431.4	125.77*	29.153	F. and P.	Do.
Fort Worth, Tex.....	527.6	125.77*	23.838	F. and P.	Do.
Guthrie, Okla.....	353.9	125.77*	35.538	F. and P.	Do.
Hannibal, Mo.....	430.8	112.6 *	26.137	F.	Do.
Hannibal, Mo.....	460.9	125.77*	27.287	P.	Do.
Houston, Tex.....	854.4	125.77*	14.72	F. and P.	Do.
Iola, Kans.....	119.9	112.6 *	93.911	F. and P.	Do.
Joplin, Mo.....	210.0	125.77*	59.89	F. and P.	Do.
Muskogee, Okla.....	274.1	125.77*	45.884	F. and P.	Do.
Oklahoma City, Okla.....	363.5	125.77*	34.599	F. and P.	Do.
Parsons, Kans.....	157.1	125.77*	80.057	F. and P.	Do.
St. Louis, Mo.....	512.4	112.6 *	21.975	F.	Do.
St. Louis, Mo.....	543.7	125.77*	23.132	P.	Do.
San Antonio, Tex.....	839.7	125.77*	14.978	F.	Do.
San Antonio, Tex.....	804.89	125.77*	15.625	P.	Do.
South McAlester, Okla.....	336.4	125.77*	37.387	F. and P.	Do.
Taylor, Tex.....	689.4	125.77*	18.243	F. and P.	Do.
Vinita, Okla.....	209.5	125.77*	60.035	F. and P.	Do.
Waco, Tex.....	616.0	125.77*	20.417	F. and P.	Do.
Wagoner, Okla.....	258.7	125.77*	48.616	F. and P.	Do.
Kansas City, Mo., and—					
Alexandria, La.....	813.57	159.58*	19.615	F.	Mo. Pac. Sys.
Arkansas City, Kans.....	279.39	134.54	24.078	F. and P.	A., T. & S. Fe.
Bartlesville, Okla.....	211.4	64.3	15.208	F. and P.	Do.
Benton, Ark.....	543.06	183.06*	33.709	F.	Mo. Pac. Sys.
Caldwell, Kans.....	281.53	134.54	23.895	F. and P.	A., T. & S. F.
Chanute, Kans.....	126.9	64.3	25.335	F. and P.	Do.
Chickasha, Okla.....	547.2	83.4	7.62	P.	St. L. & S. F.
Chillicothe, Mo.....	96.3	42.0	21.806	F. and P.	C., B. & Q.
Coffeyville, Kans.....	172.7	64.3	18.618	F. and P.	A., T. & S. F.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Kansas City, Mo., and—					
Davenport, Iowa.....	381.0	156.87	20.54	F. and P.	C., B. & Q.
Deming, N. Mex.....	1,149.01	420.04	18.279	F. and P.	A., T. & S. F.
El Paso, Tex.....	1,173.22	420.04	17.901	F. and P.	Do.
El Paso, Tex.....			20.158	F.	Mo. Pac. Sys.
(Based on 44% N. of Texarkana.)					
Fayetteville, Ark.....	316.1	39.9	6.311	P.	St. L. & S. F.
Fort Sill, Okla.....	591.9	83.4	7.045	P.	Do.
Fort Smith, Ark.....	379.1	39.9	5.282	P.	Do.
Galveston, Tex. (see note 7.)				F.	Mo. Pac. Sys.
Guthrie, Okla.....	368.7	134.54	18.245	F. and P.	A., T. & S. F.
Hannibal, Mo.....	226.87	171.64	37.995	F. and P.	C., B. & Q.
Helena, Ark.....	676.72	213.84*	31.599	F.	Mo. Pac. Sys.
Holbrook, Ariz.....			33.21	F.	A., T. & S. F.
(Based on 58% E. and 42% W. of Albuquerque.)					
Hot Springs, Ark.....	573.47	182.39*	31.805	F.	Mo. Pac. Sys.
Hot Springs, Ark.....	578.48	188.55*	32.594	P.	Do.
Hutchinson, Kans.....	234.1	167.62	35.801	F. and P.	A., T. & S. F.
Independence, Kans.....	165.9	64.3	19.379	F. and P.	Do.
Iola, Kans.....	110.0	52.6	23.909	F. and P.	Do.
La Junta, Colo.....	570.87	420.04	36.79	F. and P.	Do.
Laredo, Tex. (Note 2) (Based on 57% N. of Texarkana.)			26.113	F.	Mo. Pac. Sys.
Little Rock, Ark.....	520.81	159.58*	30.641	F.	Do.
Little Rock, Ark.....	524.78	165.91*	31.615	P.	Do.
Memphis, Tenn.....	664.65	213.84*	32.173	F.	Do.
Memphis, Tenn.....	669.68	220.0 *	32.851	P.	Do.
Monett, Mo.....	245.6	39.9	8.122	P.	St. L. & S. F.
Newton, Kans.....	201.02	134.54	33.465	F. and P.	A., T. & S. F.
Oklahoma City, Okla.....	399.98	134.54	16.818	F. and P.	Do.
Parsons, Kans.....	159.7	13.17*	8.246	F. and P.	M., K. & T.
Peoria, Ill.....	378.32	156.87	20.732	F. and P.	C., B. & Q.
Prescott, Ariz.....			28.917	F.	A., T. & S. F.
(Based on 46% E. of Albuquerque and 38% Albu- querque to Ash Fork.)					
Pueblo, Colo.....	634.53	420.04	33.099	F. and P.	Do.
Purcell, Okla.....	433.26	134.54	15.527	F. and P.	Do.
Quincy, Ill.....	225.42	156.87	34.795	F. and P.	C., B. & Q.
Rock Island, Ill.....	380.04	156.87	20.639	F. and P.	Do.
St. Louis, Mo.....	343.04	171.64	25.018	F. and P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Kansas City, Mo., and—					
Salina, Kans.	232.2	81.0	17.442	F. and P.	A., T. & S. F.
San Antonio, Tex. (Note 2.)			28.633	F.	Mo. Pac. Sys.
(Based on 62.5% N. of Texarkana.)					
San Diego, Cal.			31.245	F.	A., T. & S. F.
(Based on 44% E. and 56% W. of Albuquerque.)					
Santa Fe, N. Mex.	869.11	420.04	24.165	F. and P.	Do.
Seligman, Mo.	276.5	39.9	7.215	P.	St. L. & S. F.
Texarkana, Ark.	664.36	304.36*	45.813	F.	Mo. Pac. Sys.
Texarkana, Ark.	669.3	310.43*	46.381	P.	Do.
Trinidad, Colo.	652.37	420.04	32.194	F. and P.	A., T. & S. F.
Van Buren, Ark.	373.6	39.9	5.339	P.	St. L. & S. F.
Wingate, N. Mex.			32.44	F.	A., T. & S. F.
(Based on 58% E. and 42% W. of Albuquerque.)					
Kern Junction, Cal., and—					
Army Point, Cal.	285.07	74.12	13.0	F. and P.	Sou. Pac.
Asuncion, Cal.	360.8	137.0	18.985	F. and P.	Do.
Benicia, Cal.	283.67	74.12	13.065	F. and P.	Do.
Castroville, Cal.	350.2	106.6	15.20	F. and P.	Do.
Marysville, Cal.	324.32	74.12 34.3 *	22.003	F.	Do.
Marysville, Cal.	329.27	74.12 34.3 *	21.672	P.	Do.
Monterey, Cal.	365.68	106.62	14.578	F. and P.	Do.
Sacramento, Cal.	277.27	74.12	13.366	F. and P.	Do.
San Francisco, Cal.	314.54	74.12	11.782	F. and P.	Do.
San Jose, Cal.	290.48	74.12	12.93	F. and P.	Do.
San Luis Obispo, Cal.	333.6	137.0	20.533	F. and P.	Do.
South Vallejo, Cal.	319.87	74.12	11.568	F.	Do.
South Vallejo, Cal.	287.76	74.12	12.878	P.	Do.
Stockton, Cal.	229.3	74.12	16.162	F. and P.	Do.
Weed, Cal.	531.92	74.12 241.9 *	52.735	F.	Do.
Weed, Cal.	536.87	74.12 241.9 *	51.96	P.	Do.
LaSalle, Ill., and—					
Gale, Ill.	307.56	251.98	40.965	F. and P.	Ill. Cent.
Martin, Tenn.	361.46	305.42	42.248	F.	Do.
Memphis, Tenn.	470.68	305.42	32.445	F. and P.	Do.
Springfield, Ill.	127.34	82.54	32.41	F. and P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Leavenworth, Kans., and—					
Aurora, Ill.	471.85	191.64	20.307	F. and P.	C., B. & Q.
Burlington, Iowa.	324.21	191.64	29.554	F. and P.	Do.
Cameron, Mo.	76.6	35.3	23.042	F. and P.	Do.
Chillicothe, Mo.	118.06	77.0	32.613	F. and P.	Do.
Davenport, Iowa.	404.6	191.64	23.777	F. and P.	Do.
Emporia, Kans.	118.2	71.63	30.3	F. and P.	A., T. & S. F.
Galveston, Tex. (see Note 7).				F.	Mo. Pac. Sys.
Great Bend, Kans.	275.83	229.26	41.558	F. and P.	A., T. & S. F.
Guthrie, Okla.	358.89	144.73	20.164	F. and P.	Do.
Holbrook, Ariz.			33.677	F.	Do.
(Based on 58% E. and 42% W. of Albuquerque.)					
Hutchinson, Kans.	224.38	177.81	39.623	F. and P.	Do.
Laredo, Tex. (Note 2)			25.583	F.	Mo. Pac. Sys.
(Based on 58% N. of Texarkana.)					
Las Animas, Colo.	542.29	430.23	39.668	F. and P.	A., T. & S. F.
Los Angeles, Cal.			33.57	F.	Do.
(Based on 44% E. and 56% W. of Albuquerque.)					
Memphis, Tenn.	690.33	213.84	30.976	F.	Mo. Pac. Sys.
Oklahoma City, Okla.	390.34	144.73	18.539	F. and P.	A., T. & S. F.
Osage City, Kans.	91.16	44.59	24.457	F. and P.	Do.
Prescott, Ariz.			29.288	F.	Do.
(Based on 46% E. of Albuquerque and 38% Albuquerque to Ash Fork.)					
Pueblo, Colo.	624.81	430.23	34.429	F. and P.	Do.
Purcell, Okla.	423.64	144.73	17.062	F. and P.	Do.
Quincy, Ill.	246.99	191.64	38.787	F. and P.	C., B. & Q.
Rock Island, Ill.	401.53	191.64	23.863	F. and P.	Do.
St. Louis, Mo.	364.54	206.4	28.309	F. and P.	Do.
San Antonio, Tex.			27.788	F.	Mo. Pac. Sys.
(Note 2).					
(Based on 63% N. of Texarkana.)					
San Diego, Cal.			31.6	F.	A., T. & S. F.
(Based on 44% E. and 56% W. of Albuquerque.)					
Santa Fe, N. Mex.	869.43	430.23	25.03	F. and P.	Do.
Texarkana, Ark.	690.04	304.36*	44.108	F.	Mo. Pac. Sys.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Leavenworth, Kans., and—					
Topeka, Kans.....	56.8	10.19	8.97	F. and P.	A., T. & S. F.
Trinidad, Colo.....	642.69	430.23	33.471	F. and P.	Do.
Tulsa, Okla.....	268.77	64.29	11.96	F. and P.	Do.
Wichita, Kans.....	218.44	144.73	33.128	F. and P.	Do.
Lexington, Ky., and—					
New Orleans, La.....	747.51	244.94	16.383	F.	Q. & C.
Pensacola, Fla.....	760.6	345.4	23.008	F. and P.	L. & N.
Little Rock, Ark., and—					
Camden, Ark.....	114.37	80.86*	70.7	F. and P.	Mo. Pac. Sys.
Coffeyville, Kans.....	325.06	159.58*	49.094	F.	Do.
Fort Crook, Nebr.....	707.51	159.58*	22.555	F.	Do.
Fort Leavenworth, Kans.....	548.63	159.58*	29.087	F.	Do.
Fort Smith, Ark.....	167.17	165.74*	99.145	F.	Do.
Fort Smith, Ark.....	165.91	165.91*	100.0	P.	Do.
Independence, Kans.....	343.69	159.58*	46.431	F.	Do.
Omaha, Nebr.....	730.85	159.58*	21.835	F.	Do.
Pueblo, Colo.....			34.026	F.	Mo. Pac. Sys. and A., T. & S. F.
(Based on 40% E. and 60% S. of Kansas City.)					
St. Joseph, Mo.....	588.52	159.58*	27.116	F.	Mo. Pac. Sys.
State Line, Okla.- Kans.....	327.55	165.91*	50.652	P.	Do.
Texarkana, Ark.....	146.21	144.78*	99.022	F.	Do.
Texarkana, Ark.....	144.61	144.61*	100.0	P.	Do.
Wagoner, Okla.....	241.62	159.58*	66.046	F.	Do.
Wichita, Kans.....	494.85	159.58*	32.248	F.	Do.
Los Angeles, Cal., and—					
Ascension, Cal.....	249.5	9.01	1.805	F. and P.	Sou. Pac.
Atascadero, Cal.....	246.4	9.01	1.828	F. and P.	Do.
Belen, N. Mex.....	859.8	715.7	41.62	F. and P.	A., T. & S. F.
Benson, Ariz.....	550.8	248.38	22.547	F. and P.	Sou. Pac.
Bowie, Ariz.....	614.46	248.38	20.211	F. and P.	Do.
Calexico, Cal.....	226.43	186.03	41.079	F. and P.	Do.
Exeter, Cal.....	259.12	241.62	46.623	F. and P.	Do.
Flagstaff, Ariz.....	544.1	403.0	37.033	F. and P.	A., T. & S. F.
Holbrook, Ariz.....	635.0	494.0	38.9	F. and P.	Do.
Huachuca, Ariz.....	578.38	248.38	21.472	F. and P.	Sou. Pac.
Imperial, Cal.....	213.4	186.03	43.587	F. and P.	Do.
Lordsburg, N. Mex..	664.8	248.38	18.681	F. and P.	Do.
Maricopa, Ariz.....	413.9	248.38	30.0	F. and P.	Do.
Monterey, Cal.....	533.18	274.12	25.706	F.	Sou. Pac. via Val- ley Div.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Los Angeles, Cal., and—					
Monterey, Cal.....	377.72	9.01	1.19	P.	Sou. Pac. via Coast Div.
Nogales, Ariz.....	568.1	248.38	21.86	F. and P.	Sou. Pac.
Ogden, Utah.....	1,135.7	241.62	10.637	F. and P.	Do.
Pasadena, Cal.....	10.7	5.9	27.57	F. and P.	Do.
Portland, Oreg.....	1,121.53	241.62 664.0*	69.977	F.	Do.
Portland, Oreg.....	1,127.01	241.62 664.0*	69.725	P.	Do.
Sacramento, Cal.....	444.77	241.62	27.162	F. and P.	Do.
San Francisco, Cal....	482.26	241.62	25.05	F. and P.	Sou. Pac. via Val- ley Div.
San Francisco, Cal....	469.5	41.6	4.43	P.	Sou. Pac. via Coast Div.
San Jose, Cal.....	458.0	241.62	26.378	F. and P.	Sou. Pac.
Stockton, Cal.....	397.62	241.62	30.388	F. and P.	Do.
Tucson, Ariz.....	500.4	248.38	24.838	F. and P.	Do.
Wingate, N. Mex.....	741.9	600.8	40.49	F. and P.	A., T. & S. F.
Yuma, Ariz.....	249.2	248.38	49.835	F. and P.	Sou. Pac.
Mackinaw City, Mich., and—					
Ashland, Wis.....			21.63	F.	D., S. S. & A. and Nor. Pac.
(Based on 65% E. and 35% N. of Iron River.)					
Bay City, Mich.....	182.3	181.6*	99.616	F. and P.	Mich. Cent.
Black Rock, N. Y.....	522.7	181.6*	34.743	F. and P.	Do.
Buffalo, N. Y.....	527.1	181.6*	34.453	F.	Do.
Buffalo, N. Y.....	542.3	181.6*	33.487	P.	Do.
Detroit, Mich.....	291.24	181.6*	62.354	F. and P.	Do.
Duluth, Minn.....	412.0	46.0	5.582	F. and P.	D., S. S. & A.
Grand Rapids, Mich...	369.24	259.0*	70.18	F.	Mich. Cent.
Grand Rapids, Mich...	225.7	190.8	42.268	P.	G. R. & I.
Hancock, Mich.....	247.0	63.0	12.753	F. and P.	D., S. S. & A.
Houghton, Mich.....	246.0	63.0	12.805	F. and P.	Do.
Iron River, Wis.....	362.0	46.0	6.353	F. and P.	Do.
Jackson, Mich.....	296.28	259.0*	87.42	F. and P.	Mich. Cent.
Kalamazoo, Mich.....	363.8	259.0*	71.193	F. and P.	Do.
Lansing, Mich.....	259.0	259.0*	100.0	F. and P.	Do.
Richmond, Ind.....	459.7	278.0	30.237	F. and P.	G. R. & I.
Superior, Wis.....	403.0	46.0	5.707	F.	D., S. S. & A.
Superior, Wis.....	407.0	46.0	5.651	P.	Do.
Suspension Bridge, N. Y.....	518.5	181.6*	35.024	F. and P.	Mich. Cent.
Toledo, Ohio.....	350.8	181.6*	51.767	F. and P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Mackinaw City, Mich. (when to or from points west thereof), and—					
Baltimore, Md. (Note 1.)			18.239	F.	Mich. Cent. and Can. Sou. Line.
Based on 52.57% W. of Black Rock.)					
Boston, Mass. (Based on 51.8% W. of Susp. Bridge.)			18.142	F.	Mich. Cent. and Blue Line.
Cleveland, Ohio. (Based on 78% N. of Toledo.)			38.825	F.	Mich. Cent. and L. S. & M. S.
Columbus, Ohio. (Based on 74% N. of Toledo.)			38.308	F.	Mich. Cent. and T. & O. C.
New York, N. Y. (Note 1.)			18.948	F.	Mich. Cent. and Blue Line.
Based on 54.1% W. of Susp. Bridge.)					
Norfolk, Va. (Based on 41.8% W. of Black Rock.)			14.522	F.	Mich. Cent. and Can. Sou. Line.
Philadelphia, Pa. (Note 1.)			18.264	F.	Do.
Based on 52.57% W. of Black Rock.)					
Pittsburg, Pa. (Based on 50% N. of Toledo.)			25.883	F.	Mich. Cent. and Pa. Lines.
Portland, Me. (Note 1.)			16.426	F.	Mich. Cent. and Blue Line.
Based on 46.9% W. of Susp. Bridge.)					
Richmond, Va. (Note 1.)			15.808	F.	Mich. Cent. and Can. Sou. Line.
Based on 45.5% W. of Black Rock.)					
Washington, D. C. (Note 1.)			16.607	F.	Do.
Based on 47.8% W. of Black Rock.)					

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Manitowec, Wis.,¹ and—					
Buffalo, N. Y.....	557.9	170.66	15.241	F.	Pere Marq.
Detroit, Mich.....	305.0	170.66	27.977	F.	Do.
Escanaba, Mich.....	189.1	145.0	38.34	F.	C. & N. W.
Green Bay, Wis.....	74.2	30.1	20.285	F.	Do.
Holland, Mich.....	186.0	30.0	8.064	F.	Pere Marq.
Marquette, Wis.....	123.2	79.1	32.1	F.	C. & N. W.
Menominee, Mich.....	124.9	80.8	32.35	F.	Do.
St. Joseph, Mich.....	248.0	30.0	6.048	F.	Pere Marq.
Suspension Bridge, N. Y.	549.3	170.66	15.534	F.	Do.
Toledo, Ohio.....	333.0	170.66	25.624	F.	Do.
Martin, Tenn., and—					
Decatur, Ill.....	257.74	201.7	39.129	F.	Ill. Cent.
Dubuque, Iowa.....	509.49	453.45	44.5	F.	Do.
Memphis, Tenn., and—					
Austin, Tex. (Note 2.)			33.093	F.	Mo. Pac. Sys.
(Based on 48% N. of Texarkana.)					
Coffeyville, Kans.....	469.32	213.84*	45.564	F.	Do.
Decatur, Ill.....	366.96	201.7	27.483	F. and P.	Ill. Cent.
Dubuque, Iowa.....	618.71	453.45	36.645	F. and P.	Do.
El Paso, Tex.....			17.925	F.	Mo. Pac. Sys.
(Based on 26% N. of Texarkana.)					
Fort Reno, Okla.....	517.7	131.0*	25.304	F. and P.	C., R. I. & P.
Fort Sill, Okla.....	612.1	131.0*	21.402	F. and P.	Do.
Fort Smith, Ark.....	310.81	220.0*	70.783	F. and P.	Mo. Pac. Sys.
Galveston, Tex. (Note 2.)			35.161	F.	Do.
(Based on 51% N. of Texarkana.)					
Geary, Okla.....	535.1	131.0*	24.486	F. and P.	
Hot Springs, Ark.....	193.3	131.0*	67.77	F. and P.	C., R. I. & P.
Howe, Okla.....	295.4	131.0*	47.732	F.	Do.
Laredo, Tex. (Note 2.)			25.499	F.	Mo. Pac. Sys.
(Based on 37% N. of Texarkana.)					
Little Rock, Ark.....	132.9	131.0*	98.57	F. and P.	C., R. I. & P.

¹ These percentages are applicable during season of navigation and on L. C. L. business to or from points beyond are subject to the authorized deduction for the Pere Marquette on break bulk freight.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Memphis, Tenn., and—					
Mansfield, Ark.....	271.1	131.0*	48.339	F.	C. R. I. & P.
Oklahoma City, Okla.....	486.6	131.0*	26.921	F. and P.	Do.
Omaha, Nebr.....	874.60	213.84*	24.448	F.	Mo. Pac. Sys.
St. Louis, Mo.....	326.48	32.78*	10.04	F.	Do.
St. Louis, Mo.....	329.67	{ 2.34 32.78*	10.298	P.	Do.
San Antonio, Tex.....			29.301	F.	Do.
(Note 2). (Based on 42.5% N. of Texarkana.)					
State Line Okla.- Kans.....	472.45	220.0*	46.566	P.	Do.
Texarkana, Ark.....	292.41	201.6*	68.944	F. and P.	Do.
Wagoner, Okla.....	393.13	220.0*	55.961	P.	Do.
Wister, Okla.....	301.8	131.0*	43.406	F. and P.	C., R. I. & P.
Milwaukee, Wis., and—					
Green Bay, Wis.....	128.8	65.5	25.427	F. and P.	C. & N. W.
Oshkosh, Wis.....	80.8	17.5	10.83	F. and P.	Do.
Omaha, Nebr.....	562.1	271.6	24.16	F.	Do.
Minneapolis, Minn., and—					
Elroy, Wis.....	205.0	172.6	42.007	F. and P.	C., St. P., M. & O.
Madison, Wis.....	279.65	183.55	32.818	F.	C., St. P., M. & O. and C. & N. W.
Omaha, Nebr.....	369.7	286.15	38.7	F.	Do.
Minnesota Transfer, Minn., and—					
American Lake, Wash.....	1,939.1	1,860.02	47.961	F.	Nor. Pac.
Assiniboine, Mont.....	964.0	294.0	15.249	F.	Gt. Nor.
Atholison, Kans.....			25.354	F.	C., St. P., M. & O.
(Based on 65% N. of Council Bluffs.)					
Billings, Mont.....	910.0	834.44	45.848	F.	Nor. Pac.
Bismarck, N. Dak.....	462.8	387.24	41.837	F.	Do.
Clear Lake, Wash.....	2,038.0	1,843.34	45.224	F.	Do.
Coe Grove, Wash.....	1,940.6	1,860.02	47.924	F.	Do.
Deevers, Mont.....	1,076.5	949.74	44.112	F.	Do.
Des Moines, Iowa.....	401.8	213.4	26.555	F.	C., M. & St. P.
Fort Keogh, Mont.....	765.3	689.74	45.064	F.	Nor. Pac.
Fort Sheridan, Ill.....	403.1	178.6	22.153	F.	C., St. P., M. & O., and C. & N. W.
Fort Snelling, Minn.....	8.9	5.8	32.584	F.	C., M. & St. P.
Gardiner, Mont.....	1,079.5	949.74	43.99	F.	Nor. Pac.
Havre, Mont.....	956.0	294.0	15.376	F.	Gt. Nor.
Helena, Mont.....	1,148.3	1,072.74	46.71	F.	Nor. Pac.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Minnesota Transfer, Minn., and—					
Hunts, Wash.....	1,699.4	1,613.14	47.76	F.	Nor. Pac.
Interbay, Wash.....	1,953.3	1,843.34	47.185	F.	Do.
Kansas City, Mo.....			25.354	F.	C., St. P., M. & O.
Leavenworth, Kans. (Based on 65% N. of Council Bluffs.)					
Madison, Wis.....	274.7	178.6	32.508	F.	C., St. P., M. & O. and C. & N. W.
Mason City, Iowa.....	144.3	113.2	39.224	F.	C., M. & St. P.
Missoula, Mont.....	1,272.5	1,196.94	47.031	F.	Nor. Pac.
Portland, Oreg.....	2,073.0	1,997.44	48.178	F.	Do.
Post, Mont.....	1,276.3	1,196.94	46.891	F.	Do.
Rock Island, Ill.....	336.0	112.0	16.666	F.	C., M. & St. P.
St. Louis, Mo.....			26.462	F.	C., St. P., M. & O., C. & N. W., and Ill. Cent.
(Based on 42.5% N. and 57.5% S. of Madison.)					
Seattle, Wash.....	1,949.3	1,843.34	47.282	F.	Nor. Pac.
Spokane, Wash.....	1,529.6	1,454.04	47.53	F.	Do.
Tacoma, Wash.....	1,928.5	1,852.94	48.041	F.	Do.
Vancouver, Wash.....	2,062.1	1,956.94	47.45	F.	Do.
Walla Walla, Wash.....	1,742.5	1,613.84	46.808	F.	Do.
Monterey, Cal., and—					
Exeter, Cal.....	309.06	32.5	5.28	F. and P.	Sou. Pac.
Merced, Cal.....	202.65	32.5	8.015	F. and P.	Do.
Mojave, Cal.....	432.76	173.63	20.061	F. and P.	Do.
Oakland, Cal.....	115.1	32.5	14.118	F. and P.	Do.
Ogden, Utah.....	891.9	32.5	1.822	F. and P.	Do.
Portland, Oreg.....	878.44	32.5	77.439	F.	Do.
		664.0*			
Portland, Oreg.....	884.2	32.5	76.934	P.	Do.
		664.0*			
Sacramento, Cal.....	202.5	32.5	8.024	F. and P.	Do.
San Jose, Cal.....	75.1	32.5	21.638	F. and P.	Do.
Stockton, Cal.....	154.3	32.5	10.532	F. and P.	Do.
Montgomery, Ala., and—					
Columbia, Tenn.....	258.3	183.0	35.424	F. and P.	L. & N.
Columbus, Ga.....	95.0	53.0	27.6	F. and P.	C. of Ga.
Decatur, Ala.....	183.0	183.0	50.0	F. and P.	L. & N.
Evansville, Ind.....	462.3	183.0	19.792	F. and P.	Do.
Louisville, Ky.....	491.0	183.0	18.635	F. and P.	Do.
Macon, Ga.....	195.0	53.0	13.59	F. and P.	C. of Ga.
Mobile, Ala.....	178.4	118.8	33.296	F. and P.	L. & N.
Nashville, Tenn.....	304.2	183.0	30.079	F. and P.	Do.
New Orleans, La.....	318.1	118.8	18.673	F. and P.	Do.
Pensacola, Fla.....	167.0	167.0	50.0	F. and P.	Do.
River Jct., Fla.....	323.4	323.4	50.0	F. and P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Oklahoma City, Okla., and—					
Santa Fe, N. Mex.	867.5	285.5	16.464	F.	A., T. & S. F.
Trinidad, Colo.	650.31	285.5	21.951	F.	Do.
Omaha, Nebr., and—					
Benton, Ark.	751.82	181.78*	24.178	F.	Mo. Pac. Sys.
El Paso, Tex. (Based on 51% N. of Texarkana.)			17.752	F.	Do.
Fort Sheridan, Ill.	512.3	271.6	26.508	F.	C. & N. W.
Galveston, Tex. (see Note 7).					
Laredo, Tex. (Note 2) (Based on 64% N. of Texarkana.)			22.277	F.	Mo. Pac. Sys.
New Orleans, La. (Note 6). (Divide 58.8% N. and 41.2% S. of Cairo.)				F.	Ill. Cent. and M. & O.
San Antonio, Tex. (see Note 7).				F.	Mo. Pac. Sys.
Texarkana, Ark.	874.4	304.36*	34.908	F.	Do.
Paducah, Ky., and—					
Carbondale, Ill.	96.44	53.44	27.707	P.	Ill. Cent.
Pensacola, Fla., and—					
Flomaton, Ala.	43.5	43.5	50.0	F. and P.	L. & N.
Louisville, Ky.	653.1	345.4	26.443	F. and P.	Do.
New Orleans, La.	242.8	43.5	8.958	F. and P.	Do.
River Jct., Fla.	161.1	161.1	50.0	F. and P.	Do.
Portland, Oreg., and—					
American Lake, Wash	139.3	126.5	48.995	F. and P.	Nor. Pac.
Army Point, Cal.	736.7	664.0*	90.132	F. and P.	Sou. Pac.
Atascadero, Cal.	980.84	32.5 664.0*	60.353	F.	Do.
Atascadero, Cal.	983.8	22.5 664.0*	60.145	P.	Do.
Bakersfield, Cal.	953.4	73.4 664.0*	73.495	F.	Do.
Bakersfield, Cal.	958.79	73.4 664.0*	73.081	P.	Do.
Benicia, Cal.	738.1	664.0*	89.061	F. and P.	Do.
Coogrove, Wash.	140.8	136.5	48.473	F. and P.	Nor. Pac.
Deming, N. Mex.	1,846.01	490.0 664.0*	49.241	F.	Sou. Pac.
Deming, N. Mex.	1,851.32	490.0 664.0*	49.1	P.	Do.
Duluth, Minn.	2,052.01	2,052.01	50.0	F. and P.	Nor. Pac.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Portland, Oreg., and—					
El Paso, Tex.....	1,933.91	490.0 664.0*	47.003	F.	Sou. Pac.
El Paso, Tex.....	1,939.32	490.0 664.0*	46.872	P.	Do.
Exeter, Cal.....	897.5	664.0*	75.098	F.	Do.
Exeter, Cal.....	902.9	664.0*	73.541	P.	Do.
Gardiner, Mont.....	1,102.3	1,048.5	47.56	F. and P.	Nor. Pac.
Goble, Oreg.....	39.4	39.4	50.0	F. and P.	Do.
Huachuca, Ariz.....	1,700.31	490.0 664.0*	53.461	F.	Sou. Pac.
Huachuca, Ariz.....	1,705.62	490.0 664.0*	53.294	P.	Do.
Interbay, Wash.....	188.5	154.1	40.875	F. and P.	Nor. Pac.
Los Angeles, Cal.....	1,121.53	241.62 664.0*	69.977	F.	Sou. Pac.
Los Angeles, Cal.....	1,127.01	241.62 664.0*	69.725	P.	Do.
Maricopa, Ariz.....	1,535.9	490.0 664.0*	59.183	F.	Do.
Maricopa, Ariz.....	1,541.31	490.0 664.0*	58.976	P.	Do.
Monterey, Cal.....	878.44	32.5 664.0*	77.439	F.	Do.
Monterey, Cal.....	884.2	32.5 664.0*	76.934	P.	Do.
Oakland, Cal.....	767.4	664.0*	86.526	F. and P.	Do.
Ogden, Utah.....	1,341.5	664.0*	49.497	F. and P.	Do.
Post, Mont.....	804.5	800.5	49.751	F. and P.	Nor. Pac.
Reno, Nev.....	800.4	664.0*	82.959	F. and P.	Sou. Pac.
Sacramento, Cal.....	682.24	664.0*	97.326	F. and P.	Do.
San Francisco, Cal.....	772.03	664.0*	86.007	F. and P.	Do.
San Jose, Cal.....	803.34	664.0*	82.655	F.	Do.
San Jose, Cal.....	809.2	664.0*	82.056	P.	Do.
Seattle, Wash.....	184.5	154.1	41.762	F. and P.	Nor. Pac.
Spokane, Wash.....	543.4	543.4	50.0	F. and P.	Do.
Stockton, Cal.....	724.01	664.0*	91.711	F.	Sou. Pac.
Stockton, Cal.....	731.21	664.0*	90.806	P.	Do.
Superior, Wis.....	2,054.2	2,054.2	50.0	F. and P.	Nor. Pac.
Tacoma, Wash.....	144.5	144.5	50.0	F. and P.	Do.
Walla Walla, Wash.....	465.1	412.0	44.292	F. and P.	Do.
Wallula, Wash.....	412.9	412.9	50.0	F. and P.	Do.
Yuma, Ariz.....	1,370.8	490.0 664.0*	66.312	F.	Do.
Yuma, Ariz.....	1,376.2	490.0 664.0*	66.051	P.	Do.

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
Pueblo, Colo., and—					
Burton, Kans.....	414.51	266.5	32.147	F. and P.	A., T. & S. F.
Emporia, Kans.....	506.93	358.92	35.402	F. and P.	Do.
Hutchinson, Kans.....	400.43	252.42	31.519	F. and P.	Do.
Independence, Kans.....	581.6	285.5	24.545	F. and P.	Do.
Oklahoma, Okla.....	632.28	285.5	22.577	F. and P.	Do.
St Joseph, Mo.....	639.19	470.58	36.81	F. and P.	Do.
Topeka, Kans.....	568.05	420.04	36.972	F. and P.	Do.
Quincy, Ill., and—					
Breckenridge, Mo.....	145.5	131.1	44.85	F.	C., B. & Q.
Fort Crook, Nebr.....	363.88	279.98	38.471	F.	Do.
Lathrop, Mo.....	186.9	156.8	42.0	F. and P.	Do.
Macon, Mo.....	70.0	55.6	39.713	F. and P.	Do.
St. Joseph, Mo.....	205.9	191.6	46.518	F. and P.	Do.
River Junction, Fla., and—					
Lake City, Fla.....	149.0	149.0	50.0	F. and P.	S. A. L.
Louisville, Ky.....	814.2	506.5	31.104	F.	L. & N.
Mobile, Ala.....	264.2	204.7	38.74	F. and P.	Do.
New Orleans, La.....	403.9	204.7	25.34	F. and P.	Do.
Portsmouth, Va.....	857.7	224.6	13.063	F.	S. A. L.
Portsmouth, Va.....	865.6	209.0	12.072	P.	Do.
Richmond, Va.....	840.1	224.6	13.367	F.	Do.
Richmond, Va.....	848.0	209.0	12.323	P.	Do.
Savannah, Ga.....	338.3	224.6	33.195	F.	Do.
Savannah, Ga.....	346.2	209.0	30.185	P.	Do.
Tampa, Fla.....	383.0	383.0	50.0	F. and P.	Do.
Rock Island, Ill., and—					
Aberdeen, S. Dak....	602.9	{ 85.3 183.5* }	37.51	F.	C., M. & St. P.
Camp Douglas, Wis...	261.5	39.0	7.45	F.	Do.
Des Moines, Iowa....	173.7	175.1	49.547	F. and P.	C., R. I. & P.
East St. Louis, Ill.	.....	.....	19.882	F.	C., M. & St. P. and Ill. Cent.
(Based on 75% S. of Freeport.)					
Fort Leavenworth, Kans.	401.53	191.6	23.859	F. and P.	C., B. & Q.
Fort Snelling, Minn..	336.0	112.0	16.666	F.	C., M. & St. P.
Lincoln, Nebr.....	380.3	317.75	41.776	F.	C., R. I. & P.
Minneapolis, Minn...	336.0	112.0	16.666	F.	C., M. & St. P.
Omaha, Nebr.....	322.3	317.75	49.294	F.	C., R. I. & P.
St. Joseph, Mo.....	360.48	191.6	26.575	F. and P.	C., B. & Q.
St. Louis, Mo.....	F.	C., M. & St. P. and Ill. Cent.
(Deduct bridge tolls and divide balance on East St. Louis basis.)					

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Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Rock Island, Ill., and—					
St. Paul, Minn.....	336.0	112.0	16.666	F.	C., M. & St. P.
St. Paul, Minn.....	364.0	110.78	15.217	P.	Do.
South Omaha, Nebr.....	326.25	317.75	48.697	F.	C., R. I. & P.
Sparta, Wis.....	268.7	39.0	6.75	F.	C., M. & St. P.
Springfield, Ill.....			26.035	F.	C., M. & St. P. and Ill. Cent.
(Based on 71.6% S. of Freeport.)					
St. Louis, Mo., and—					
Albert Lea, Minn.....	577.88	320.63	26.521	F. and P.	Ill. Cent.
Alexandria, La.....	686.74	179.15*	26.135	F.	Mo. Pac. Sys.
Arcadia, Mo.....	92.27	2.34	1.268	P.	Do.
Ardmore, Okla.....	627.0	291.3	23.229	F.	St. L. & S. F.
Arkansas City, Kans.....	515.0	253.0	24.563	F.	Do.
Austin, Tex. (Note 2).....			39.72	F.	Mo. Pac. Sys.
(Based on 60% N. of Texarkana.)					
Bald Knob, Ark.....	268.16	122.49*	42.504	F.	Do.
Batesville, Ark.....	266.35	93.38*	32.61	F.	Do.
Benton, Ark.....	868.89	203.21*	55.086	F.	Do.
Benton, Ark.....	372.08	2.34		P.	Do.
Bentonville, Ark.....	338.0	248.0	36.685	F.	St. L. & S. F.
Birmingham, Ala.....	530.8	86.2	8.12	P.	L. & N.
Bloomington, Ill.....	168.79	22.44	6.647	F. and P.	Ill. Cent.
Boonville, Mo.....	170.59	37.0	10.844	F.	Mo. Pac. Sys.
Burton, Kans.....	538.0	252.8	23.5	F.	S. L. & S. F.
Burton, Kans.....	553.3	252.8	22.844	P.	Do.
Chickasha, Okla.....	583.5	291.3	24.961	P.	Do.
Council Bluffs, Iowa.....	505.73	274.66	37.155	F.	C., B. & Q.
Des Moines, Iowa.....			26.421	F.	Ill. Cent. and C., B. I. & P.
(Based on 46.9% S. and 53.1% W. of La Salle.)					
Des Moines, Iowa.....	380.1	98.3	12.931	P.	C., B. & Q.
El Paso, Tex.....			23.832	F.	Mo. Pac. Sys.
(Based on 36% N. of Texarkana.)					
Fort Crook, Nebr.....	500.78	279.98	27.954	F.	C., B. & Q.
Fort Riley, Kans.....			14.154	F.	C., B. & Q. and Union Pac.
(Note 5.)					
(Based on 50% E. of Leavenworth.)					
Fort Sheridan, Ill.....			10.379	F.	Ill. Cent. and C. & N. W.
(Based on 75% S. of Chicago.)					
Fort Sill, Okla.....	626.0	291.3	23.267	F.	St. L. & S. F.
Fort Sill, Okla.....	628.2	291.3	23.185	P.	Do.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
St. Louis, Mo., and—					
Fort Smith, Ark.....	506.28	340.6*	67.275	F.	Mo. Pac. Sys.
Fort Smith, Ark.....	509.47	2.34	67.083	P.	Do.
Galveston, Tex. (Note 2).		340.6*	42.037	F.	Do.
(Based on 63.5% N. of Texar- kana.)					
Hot Springs, Ark.....	399.3	202.54*	50.723	F.	Do.
Jefferson Barracks, Mo.	12.75	2.34*	9.176	P.	Do.
Joplin, Mo.....	331.0	253.0	38.22	F. and P.	St. L. & S. F.
Junction City, Kans..	512.4	112.6*	21.975	F.	M., K. & T.
Junction City, Kans..	543.7	125.77*	23.132	P.	Do.
Kansas City, Mo.....	343.04	171.64	25.018	F. and P.	C., B. & Q.
Laredo, Tex. (Note 2)			33.1	F.	Mo. Pac. Sys.
(Based on 50% N. of Texar- kana.)					
La Salle, Ill.....	228.99	82.54	18.022	F.	Ill. Cent.
Lathrop, Mo.....	304.5	171.6	28.177	F. and P.	C., B. & Q.
Little Rock, Ark.....	345.63	179.15*	51.832	F.	Mo. Pac. Sys.
Little Rock, Ark.....	348.82	2.34	51.923	P.	Do.
Madison, Wis.....	367.76	161.77	21.994	F.	Ill. Cent.
Memphis, Tenn.....	326.48	32.78	10.040	F.	Mo. Pac. Sys.
Memphis, Tenn.....	329.67	2.34	10.298	P.	Do.
Mobile, Ala.....	646.8	333.28	25.763	P.	M. & O.
Montgomery, Ala.....	627.5	183.0	14.583	P.	L. & N.
New Orleans, La.....			21.58	F.	Mo. Pac. Sys. and M., L. & T.
(Based on 76.7% N. of Alexan- dria.)					
Oklahoma City, Okla.	541.0	291.3	26.922	F.	St. L. & S. F.
Oklahoma City, Okla.	542.3	291.3	26.857	P.	Do.
Omaha, Nebr.....	513.84	274.66	26.726	F.	C., B. & Q.
Pacific Junction, Iowa.....	478.66	276.16	28.248	F.	Do.
Parsons, Kans.....	380.0	253.0	33.29	F.	St. L. & S. F.
Parsons, Kans.....	404.1	252.8	31.279	P.	Do.
Pensacola, Fla.....	789.9	345.4	21.863	P.	L. & N.
Pittsburg, Kans.....	370.3	252.8	34.134	P.	St. L. & S. F.
Rex, Okla.....	566.62	335.56*	59.221	F.	Mo. Pac.
River Junction, Fla..	951.0	566.5	26.63	F. and P.	L. & N.
St. Paul, Minn.....			28.287	F.	Ill. Cent. and C. & N. W.
(Based on 57.6% S. and 42.4% N. of Madison.)					

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
St. Louis, Mo., and— San Antonio, Tex. (Note 2.) (Based on 55% N. of Texarkana.)			36.41	F.	Mo. Pac. Sys.
Sapulpa, Okla.....	438.0	291.3	33.254	F.	St. L. & S. F.
Sioux City, Iowa.....	703.45	557.1	39.548	F.	Ill. Cent.
Spofford, Tex. (Allow 35% W. of San Antonio and divide balance on San Antonio basis.)				F.	Mo. Pac. Sys.
Springfield, Mo.....	238.0	204.0	42.86	F. and P.	St. L. & S. F.
Texarkana, Ark.....	490.19	324.51*	66.2	F.	Mo. Pac. Sys.
Texarkana, Ark.....	493.38	{ 2.34 324.51* }	66.009	P.	Do.
St. Paul, Minn., and— American Lake, Wash.	1,945.4	1,860.94	47.829	F.	Nor. Pac.
American Lake, Wash.	1,947.6	1,869.15	47.986	P.	Do.
Assinniboine, Mont..	970.0	300.0	15.464	F.	Gt. Nor.
Assinniboine, Mont..	966.43	216.84	11.218	P.	Do.
Atchison, Kans. (Based on 65% N. of Council Bluffs.)			25.237	F.	C., St. P., M. & O. and C., B. & Q.
Bemidji, Minn.....	274.0	118.0	21.533	F.	Gt. Nor.
Billings, Mont.....	915.3	833.74	45.544	F.	Nor. Pac.
Billings, Mont.....	917.0	842.07	45.915	P.	Do.
Bismarck, N. Dak....	469.4	387.84	41.312	F.	Do.
Bismarck, N. Dak....	471.0	396.07	42.045	P.	Do.
Brainerd, Minn.....	136.4	54.84	20.103	F.	Do.
Brainerd, Minn.....	138.0	63.07	22.852	P.	Do.
Butte, Mont.....	1,151.6	999.04	43.376	F.	Do.
Butte, Mont.....	1,153.0	1,007.07	43.672	P.	Do.
Chinook, Mont.....	940.0	300.0	15.957	F.	Gt. Nor.
Cosgrove, Wash.....	1,947.4	1,860.82	47.777	F.	Nor. Pac.
Cosgrove, Wash.....	1,949.1	1,869.15	47.949	P.	Do.
Custer, Mont.....	864.0	789.07	45.664	P.	Do.
Davenport, Iowa.....	361.0	110.78	15.344	P.	C., M. & St. P.
Deevers, Mont.....	1,084.0	958.07	44.192	P.	Nor. Pac.
Des Moines, Iowa....	397.5	212.2	26.692	F.	C., M. & St. P.
Devils Lake, N. Dak.	414.0	300.0	36.232	F.	Gt. Nor.
Dixon, Ill.....	403.8	172.6	21.372	F. and P.	C., St. P., M. & O. and C. & N. W.
Duluth, Minn.....	154.42	154.42	50.0	F. and P.	Nor. Pac.
Elroy, Wis.....	197.3	172.6	43.74	F. and P.	C., St. P., M. & O.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mileage.	Land-grant mileage.	Net per cent land-grant deduction.	Freight or passenger.	Road.
St. Paul, Minn., and—					
Everett, Wash.....	1,991.2	1,843.34	46.287	F.	Nor. Pac.
Fargo, N. Dak.....	304.3	148.3*	48.734	F.	C., M. & St. P.
Fargo, N. Dak.....	243.82	216.23	44.342	P.	Gt. Nor.
Fort Keogh, Mont.....	771.3	689.74	44.713	F.	Nor. Pac.
Fort Keogh, Mont.....	773.0	698.07	45.153	P.	Do.
Fort Robinson, Nebr.....	700.6	263.35	18.795	F.	C., St. P., M. & O. and C. & N. W.
Fort Sheridan, Ill.....	397.1	172.6	21.732	F. and P.	Do.
Fort Snelling, Minn.....	7.3	7.3	50.0	F. and P.	C., M. & St. P.
Freeport, Ill.....	370.4	172.6	23.299	F. and P.	C., St. P., M. & O.
Gardiner, Mont.....	1,085.5	949.74	43.747	F.	Nor. Pac.
Gardiner, Mont.....	1,087.0	958.07	44.069	P.	Do.
Garrison, Mont.....	1,266.0	1,131.07	46.894	P.	Do.
Goble, Oreg.....	2,039.6	1,958.04	48.001	F.	Do.
Goble, Oreg.....	2,043.0	1,968.07	48.166	P.	Do.
Havre, Mont.....	959.43	216.84	11.3	P.	Gt. Nor.
Helena, Mont.....	1,154.3	1,072.74	46.467	F.	Nor. Pac.
Helena, Mont.....	1,156.0	1,061.07	46.759	P.	Do.
Hunts, Wash.....	1,698.0	1,623.07	47.794	P.	Do.
Interbay, Wash.....	1,959.3	1,843.34	47.041	F.	Do.
Interbay, Wash.....	1,961.0	1,851.07	47.197	P.	Do.
Jamestown, N. Dak.....	370.0	295.07	39.874	P.	Do.
Kansas City, Mo.....					
Leavenworth, Kans.....			25.237	F.	{C., St. P., M. & O. and C., B. & Q.
(Based on 65% N. of Council Bluffs.)					
Lewiston, Idaho.....	1,682.2	1,463.04	43.486	F.	Nor. Pac.
Livingston, Mont.....	1,063.0	958.07	46.373	P.	Do.
Madison, Wis.....	268.7	172.6	32.118	F. and P.	C., St. P., M. & O. and C. & N. W.
Mandan, N. Dak.....	474.5	392.94	41.406	F.	Nor. Pac.
Mandan, N. Dak.....	476.0	401.07	42.129	P.	Do.
Mason City, Iowa.....	140.0	112.0	40.0	F. and P.	C., M. & St. P.
Miles City, Mont.....	769.0	687.44	44.697	F.	Nor. Pac.
Miles City, Mont.....	770.0	695.07	45.134	P.	Do.
Milwaukee, Wis.....	348.5	172.6	24.764	F. and P.	C., St. P., M. & O. and C. & N. W.
Missoula, Mont.....	1,278.5	1,196.94	46.81	F.	Nor. Pac.
Missoula, Mont.....	1,280.0	1,205.07	47.073	P.	Do.
Moorehead, Minn.....	241.82	216.23	44.709	P.	Gt. Nor.
North Yakima, Wash.....	1,771.0	1,689.44	47.697	F.	Nor. Pac.
Olympia, Wash.....	1,967.1	1,860.94	47.302	F.	Do.
Omaha, Nebr.....	369.7	286.15	38.7	F.	C., St. P., M. & O. and C. & N. W.
Ottumwa, Iowa.....	393.0	112.0	14.249	P.	C., M. & St. P.
Pembina, N. Dak.....	440.0	176.07	20.008	P.	Nor. Pac.
Portland, Oreg.....	2,079.0	1,997.44	48.039	F.	Do.

[Clr. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
St. Paul, Minn., and—					
Portland, Oreg.	2,083.0	2,088.07	48.202	P.	Nor. Pac.
Post, Mont.	1,282.5	1,196.94	45.684	F.	Do.
Post, Mont.	1,284.0	1,206.7	45.927	F.	Do.
St. Joseph, Mo. (Based on 65% N. of Council Bluffs.)			26.237	F.	C., St. P., M. & O.
Seattle, Wash.	1,955.3	1,843.34	47.137	F.	Nor. Pac.
Seattle, Wash.	1,957.0	1,851.07	47.293	P.	Do.
Sioux City, Iowa.	269.6	263.35	48.841	F. and P.	C., St. P., M. & O. and C. & N. W.
Spokane, Wash.	1,535.6	1,454.04	47.334	F.	Nor. Pac.
Spokane, Wash.	1,538.0	1,463.07	47.564	P.	Do.
Sturgis, S. Dak.	617.7	166.9	13.429	F.	C., St. P., M. & O. and C. & N. W.
Sumas, Wash.	2,071.2	1,843.34	44.499	F.	Nor. Pac.
Tacoma, Wash.	1,934.5	1,842.94	47.892	F.	Do.
Tacoma, Wash.	1,937.0	1,862.07	48.066	P.	Do.
Vancouver, Wash.	2,068.1	1,956.94	47.313	F.	Do.
Vancouver, Wash.	2,071.0	1,967.57	47.503	P.	Do.
Walla Walla, Wash.	1,748.5	1,613.84	46.149	P.	Do.
Walla Walla, Wash.	1,751.1	1,623.07	46.344	P.	Do.
Sacramento, Cal., and—					
Huachuca, Ariz.	1,023.38	490.0	23.93	F. and P.	Sou. Pac.
Mojave, Cal.	344.35	141.13	20.492	F. and P.	Do.
San Francisco, Cal., and—					
Ash Fork, Ariz.	798.4	464.2	30.323	F. and P.	A., T. & S. F.
Asuncion, Cal.	221.3	32.5	7.343	F. and P.	Sou. Pac.
Atascadero, Cal.	224.5	32.5	7.238	F. and P.	Do.
Bakersfield, Cal.	314.04	73.4	11.674	F. and P.	Do.
Barstow, Cal.	452.4	138.2	15.274	F. and P.	A., T. & S. F.
Bayard, N. Mex. (Based on 86% west of Albu- querque.)			31.28	F.	Do.
Benson, Ariz.	1,030.75	490.0	23.769	F. and P.	Sou. Pac.
Bowie, Ariz.	1,096.55	490.0	22.343	F. and P.	Do.
Castroville, Cal.	106.6	32.5	15.244	F. and P.	Do.
Colton, Cal.	539.52	298.88	27.699	F. and P.	Do.
Conception, Cal.	321.8	32.5	5.05	F. and P.	Do.
Deming, N. Mex.	1,206.15	490.0	20.312	F. and P.	Do.
El Paso, Tex.	1,294.57	490.0	18.925	F. and P.	Do.
El Paso, Tex. (Based on 86% west of Albu- querque.)			31.28	F.	A., T. & S. F.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	* Freight or pas- senger.	Road.
San Francisco, Cal., and—					
Gallup, N. Mex.	1,041.6	727.4	34.917	F. and P.	A., T. & S. F.
Holbrook, Ariz.	946.4	632.2	33.4	F. and P.	Do.
Huachuca, Ariz.	1,060.64	490.0	23.099	F. and P.	Sou. Pac.
Kern Junction, Cal.	314.52	74.12	11.782	F. and P.	Do.
Los Angeles, Cal.	482.26	241.62	25.05	F. and P.	Sou. Pac. via Val- ley Div.
Los Angeles, Cal.	469.5	41.6	4.43	P.	Sou. Pac. via Coast Div.
Maricopa, Ariz.	895.95	490.0	27.345	F. and P.	Sou. Pac.
Marysville, Cal.	142.33	34.3*	12.045	F. and P.	Do.
Mojave, Cal.	381.77	141.13	18.483	F. and P.	Do.
Monterey, Cal.	122.0	32.5	13.32	F. and P.	Do.
Nogales, Ariz.	1,048.05	490.0	23.376	F. and P.	Do.
Pasadena, Cal.	492.96	247.52	25.105	F. and P.	Do.
Paso Robles, Cal.	212.6	32.5	7.643	F. and P.	Do.
Portland, Oreg.	772.03	664.0*	86.007	F. and P.	Do.
Salinas, Cal.	114.5	32.5	14.192	F. and P.	Do.
San Luis Obispo, Cal.	248.5	32.5	6.539	F. and P.	Do.
San Miguel, Cal.	203.3	32.5	7.993	F. and P.	Do.
San Pedro, Cal.	505.86	241.62	23.882	F. and P.	Do.
Templeton, Cal.	218.1	32.5	7.45	F. and P.	Do.
Tucson, Ariz.	982.05	490.0	24.948	F. and P.	Do.
Willcox, Ariz.	1,073.02	490.0	22.833	F. and P.	Do.
Wingate, N. Mex.	1,053.2	739.0	35.083	F. and P.	A., T. & S. F.
Yuma, Ariz.	730.85	490.0	33.522	F. and P.	Sou. Pac.
Savannah, Ga., and—					
Fernandina, Fla.	125.8	12.1	4.8	F. and P.	S. A. L.
Seattle, Wash., and—					
Duluth, Minn.	1,928.4	1,898.0	49.212	F. and P.	Nor. Pac.
Gardiner, Mont.	977.8	893.6	45.094	F. and P.	Do.
Goble, Oreg.	145.1	114.7	39.524	F. and P.	Do.
Helena, Mont.	801.0	770.6	48.102	F. and P.	Do.
Missoula, Mont.	676.8	646.4	47.754	F. and P.	Do.
Spokane, Wash.	419.7	389.3	46.378	F. and P.	Do.
Superior, Wis.	1,924.6	1,894.0	49.205	F. and P.	Do.
Vancouver, Wash.	173.0	113.5	32.804	F. and P.	Do.
Texarkana, Ark., and—					
Camden, Ark.	97.21	63.7*	65.528	F. and P.	Mo. Pac. Sys.
Fort Crook, Nebr.	850.21	303.08*	35.647	F.	Do.
Fort Leavenworth, Kans.	691.33	303.08*	43.84	F.	Do.
Hot Springs, Ark.	153.0	121.94*	79.7	F. and P.	Do.
Lincoln, Nebr.	868.83	303.08*	34.883	F.	Do.
Pine Bluff, Ark.	187.89	144.78*	77.065	P.	Mo. Pac. Sys. via Little Rock.

[Cir. 4]

Schedule of land-grant mileages and percentages—Continued.

Between—	Total mile- age.	Land- grant mile- age.	Net per cent land- grant deduc- tion.	Freight or pas- senger.	Road.
Texarkana, Ark., and—					
Pine Bluff, Ark.....	167.76	121.94*	72.687	F. and P.	Mo. Pac. Sys. via Benton.
St. Joseph, Mo.....	730.79	303.08*	41.472	F.	Mo. Pac. Sys.
State Line, Okla.- Kans.	472.07	310.43*	65.759	P.	Do.
Topeka, Kans.....	657.77	303.08*	46.076	F.	Do.
Vancouver Wash., and—					
Bismarck, N. Dak....	1,565.9	1,567.4	49.107	F. and P.	Nor. Pac.
Cosgrove, Wash.....	128.8	96.0	37.267	F. and P.	Do.
Gardiner, Mont.....	1,091.5	1,009.0	46.221	F. and P.	Do.
Helena, Mont.....	914.5	886.0	48.442	F. and P.	Do.
Missoula, Mont.....	790.0	761.0	48.164	F. and P.	Do.
Spokane, Wash.....	531.2	502.7	47.317	F. and P.	Do.

[Cfr. 4]

LOUISVILLE & NASHVILLE RAILROAD INDEBTED LINE.

The Louisville & Nashville Railroad Company is indebted to the United States for rolling stock and equipment purchased at the close of the Civil War by the Edgefield & Kentucky Railroad, Guthrie, Ky., to Edgefield (now Amqui), Tenn., and the Memphis, Clarksville & Louisville Railroad, Guthrie, Ky., to Paris, Tenn., both these roads being now owned and operated by the Louisville & Nashville Railroad Company.

On traffic *actually moving* over the Louisville & Nashville Railroad between these points the deductions shown below should be made, *in addition* to authorized land-grant deductions, and certificate furnished the carrier and the office of the Quartermaster General, U. S. Army, for the amount withheld on account of indebted lines.

Between—	Total mileage.	In-debted mileage.	Percentage indebted line.	Freight or passenger.	Original road.
Ashley, Ill., and—					
Pensacola, Fla.....	724.0	38.2	5.276	F. and P.	E. & K.
East St. Louis, Ill.,					
and—					
Birmingham, Ala.....	527.5	38.2	7.241	F. and P.	Do.
Columbia, Tenn.....	366.0	38.2	10.437	F. and P.	Do.
Gulfport, Miss.....	875.0	38.2	4.366	F. and P.	Do.
Mobile, Ala.....	803.4	38.2	4.754	F. and P.	Do.
Montgomery, Ala.....	625.0	38.2	6.112	F. and P.	Do.
Nashville, Tenn.....	320.1	38.2	11.933	F. and P.	Do.
New Orleans, La.....	943.0	38.2	4.06	F. and P.	Do.
Pensacola, Fla.....	787.3	38.2	4.852	F. and P.	Do.
River Junction, Fla..	948.4	38.2	4.027	F. and P.	Do.
Evansville, Ind.,					
and—					
Birmingham, Ala.....	365.5	38.2	10.451	F. and P.	Do.
Columbia, Tenn.....	203.0	38.2	18.818	F. and P.	Do.
Decatur, Ala.....	279.3	38.2	13.677	F. and P.	Do.
Gadsden, Ala.....	479.7	38.2	7.963	F. and P. ¹	Do.
Gadsden, Ala.....	435.6	38.2	8.769	F. and P. ¹	Do.
Mobile, Ala.....	641.4	38.2	5.955	F. and P.	Do.
Montgomery, Ala.....	463.0	38.2	8.25	F. and P.	Do.
Nashville, Tenn.....	158.1	38.2	24.161	F. and P.	Do.
New Orleans, La.....	781.1	38.2	4.89	F. and P.	Do.
Pensacola, Fla.....	625.3	38.2	6.109	F. and P.	Do.
River Junction, Fla..	786.4	38.2	4.858	F. and P.	Do.
Tuscumbia, Ala.....	291.0	38.2	13.127	F. and P.	Do.

¹ Via Calera.

² Via Birmingham.

Between—	Total mileage.	In-debted mileage.	Percentage indebted line.	Freight or passenger.	Original road.
Memphis, Tenn., and—					
Cincinnati, Ohio.....	493.9	83.2	16.845	F. and P.	M., C. & L.
Corbin, Ky.....	491.9	83.2	16.914	F. and P.	Do.
Lexington, Ky.....	477.7	83.2	17.416	F. and P.	Do.
Louisville, Ky.....	380.2	83.2	21.883	F. and P.	Do.
Nashville, Tenn.....	264.0	38.2	14.47	F.	E. & K.
Nashville, Tenn.....	264.0	83.2	31.51	F.	M., C. & L.
Newport, Ky.....	492.1	83.2	16.907	F. and P.	Do.
Nashville, Tenn., and—					
Clarksville, Tenn.....	62.6	38.2	61.022	F. and P.	E. & K.
Clarksville, Tenn.....	62.6	13.3	21.246	F. and P.	M., C. & L.
Henderson, Ky.....	145.8	38.2	26.2	F. and P.	E. & K.
St. Louis, Mo.....	323.3	38.2	11.815	F. and P.	Do.
Tenn. Ridge, Tenn.....	95.7	46.4	48.484	F. and P.	M., C. & L.
Tenn. Ridge, Tenn.....	95.7	38.2	39.916	F. and P.	E. & K.
St. Louis, Mo., and—					
Anniston, Ala.....	630.0	38.2	6.063	F. and P. ¹	Do.
Anniston, Ala.....	649.9	38.2	5.877	F. and P. ²	Do.
Bessemer, Ala.....	546.3	38.2	6.992	F. and P.	Do.
Birmingham, Ala.....	530.7	38.2	7.198	F. and P.	Do.
Clarksville, Tenn.....	287.3	13.3	4.629	F. and P.	M., C. & L.
Columbia, Tenn.....	369.3	38.2	10.343	F. and P.	E. & K.
Decatur, Ala.....	444.5	38.2	8.593	F. and P.	Do.
Gadsden, Ala.....	600.8	38.2	6.358	F. and P. ¹	Do.
Gadsden, Ala.....	644.9	38.2	5.923	F. and P. ²	Do.
Mobile, Ala.....	806.6	38.2	4.735	F. and P.	Do.
Montgomery, Ala.....	628.2	38.2	6.08	F. and P.	Do.
New Orleans, La.....	946.3	38.2	4.036	F. and P.	Do.
Pensacola, Fla.....	790.5	38.2	4.832	F. and P.	Do.
River Junction, Fla.....	951.6	38.2	4.014	F. and P.	Do.
Talladega, Ala.....	659.9	38.2	5.788	F. and P. ¹	Do.
Talladega, Ala.....	620.0	38.2	6.161	F. and P. ²	Do.
Tusculumbia, Ala.....	456.2	38.2	8.373	F. and P.	Do.

¹ Via Birmingham.² Via Calera.

MISSOURI PACIFIC RAILWAY BOND-AIDED LINE.

The Missouri Pacific Railway Company is indebted to the United States for bonds furnished to aid in the construction of the Central Branch Union Pacific (now owned and operated by the Missouri Pacific Railway) from Atchison, Kans., to Waterville, Kans., a distance of 100 miles.

No payments should be made for service over this line, but accounts should be prepared and forwarded to the Quartermaster General of the Army for transmission to the accounting officers of the Treasury for settlement and proper credit.

[Cir. 4]

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